



The

CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

Published 1859

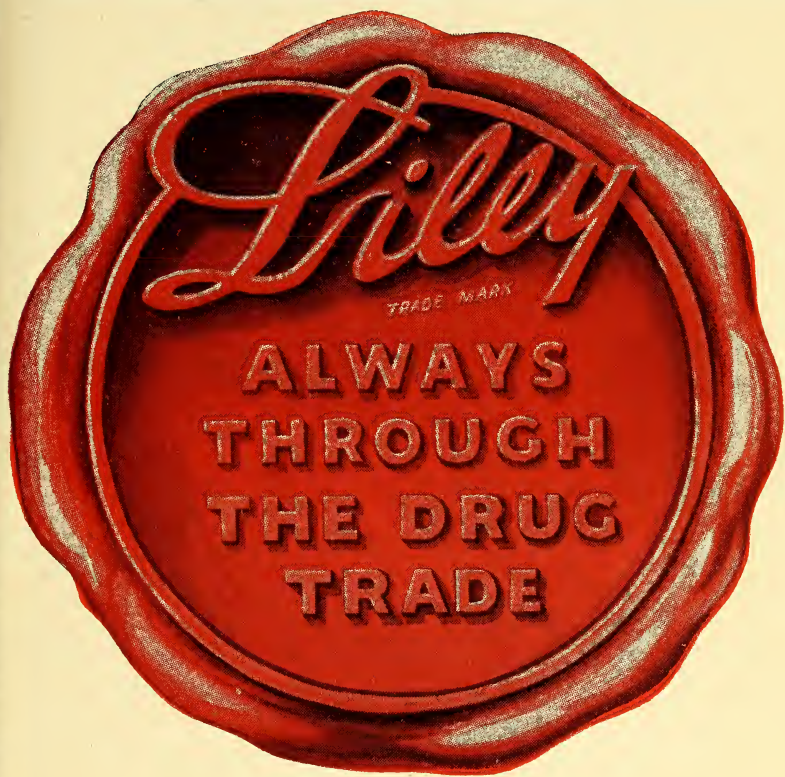
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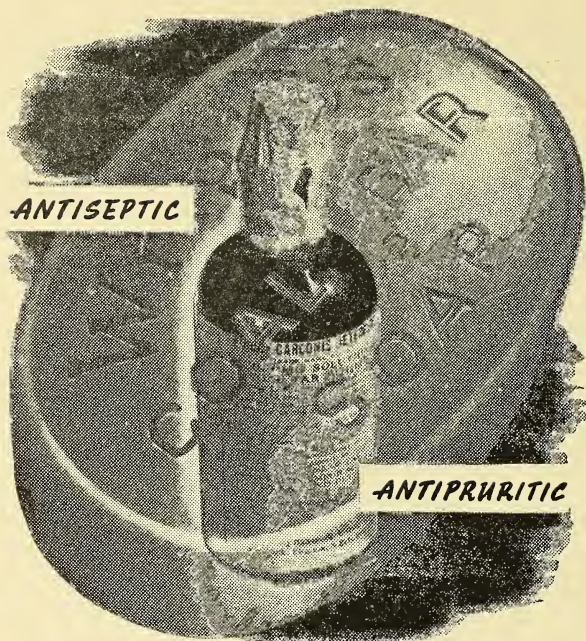
JANUARY 26, 1946

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Wright's COAL TAR SOAP

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Monsanto

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M2702

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Concentrated Liver Extract for Intramuscular Injection

Medical usage has demonstrated the striking therapeutic effects from the parenteral administration of preparations of liver in the treatment of pernicious anæmia, sprue, macrocytic anæmia of pregnancy, and certain forms of nutritional deficiency disease.

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10 cc. Rubber Capped Vials	- 5/3
20 cc. " " "	- 9/6

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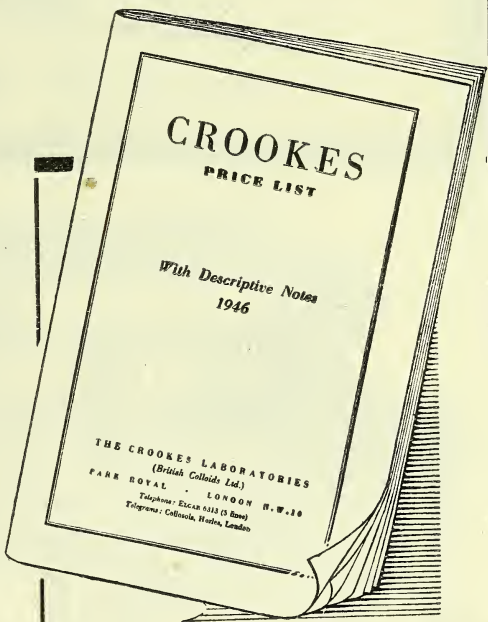
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Ring out the Old, ring in the New

GREETINGS to our many friends, and here is our new price list with which we herald 1946.

In a completely new form, with Descriptive Notes, this list introduces new trade terms of $33\frac{1}{3}\%$ discount on all lines with the exception of Crookes Halibut Oil, Crookes Iodine and Black-currant Pastilles and Crookes Lacto-Calamine.

As from the 1st January 1946, all previous terms and discounts are obsolete.



Crookes 1946 price list is available upon request.

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enable the affected tissues
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In bottles of 36 and 500
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Each contains
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In bottles of 50 and 500
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REFRESHING
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INDEX TO ADVERTISERS

d.	xxvi
al & Tablet Co., Ltd.	29
Supply Co.	xxiv
C., & Co., Ltd.	Leader Page
fford, & Sons, Ltd.	20
laboratories, Ltd.	27
& Reeves Ltd.	xxi
frican Shipping Co.	13
oratories, Ltd.	18
Weeks, Ltd.	xxii
. & Son, Ltd.	Leader Page
ducts, Ltd.	i
ey Co., Ltd.	xli
Clark & Co., Ltd.	vi
J. & J., Ltd.	34
Telegraph"	xxvi
ons	xxv
Ltd.	xi
J. H. S.	22
H.	22
Ltd.	xxli
od Liver Oils (Hull & Grimsby) Ltd.	25
Dental Sticks, Ltd.	32
rug Houses, Ltd., The	5
Dyewood Co., Ltd.	xxiv
elsol Co., Ltd.	Cover iv
ototherm Co.	ix
Schimmer	iv
pliance Co., Ltd.	vi
B., & Co.	29
R., & Co.	iii
on, Ltd.	Leader Page
Bowker Tablet Co., Ltd.	ii
n, James, Ltd.	Leader Page
ach & Gent, Ltd.	35
Bros., Ltd.	4
e, M., & Co., Ltd.	31
Laboratories, Ltd.	24
Chemicals (Welwyn), Ltd.	Cover lii
n, Beauty Preparations	xxi
ht, W. B., Ltd.	6
laboratories, Ltd.	30
& Essential Oils, Ltd.	xxviii
e Co., Ltd.	26

Clinical Products, Ltd.	24
Coates & Cooper, Ltd.	viii
Container Recovery Service	xxiv
Continental Laboratories, Ltd.	29
Cox, Arthur H., & Co., Ltd.	8
Crawford, Geo.	xxix
Cresswell Bros. & Marks	xxv
Croda, Ltd.	14
Crookes Laboratories (British Colloids, Ltd.)	3
Cupal, Ltd.	xxiii
Cuxson, Gerrard & Cö., Ltd.	8
Dae Health Laboratories, Ltd.	xviii
Dales Aspirin Co.	9
Daniel, Richard & Son, Ltd.	13
Davies & Long, Ltd.	xvi
Distillers Co., Ltd.	x
Drury's Pharmaceuticals Ltd.	x
E.N.T. Manufacturing Co., Ltd.	30
Emmet Distributing Co., Ltd.	28
Ensa Works & Herbert Foot Appliance, Ltd.	ix
Eucryl, Ltd.	xiv
Fassett & Johnson (Nodan)	14
Favell, T. J., & Co., Ltd.	xxviii
Faylene Manufacturing Co.	xxviii
Field & Co. (Aromatics), Ltd.	14
Findon Publications	xxix
Franks, A., & Bartlett Co., Ltd.	16
Freudentheil, Smith & Co.	Leader Page
Gardner, W., & Sons (Glos.), Ltd.	ix
Genatosan, Ltd.	17
Gerrard Trading Co.	xxviii
Gibson, Robert, & Sons, Ltd.	lii
Gilbert, J. C., Ltd.	iv
Gleim Shampoo Co.	xvi
Gosheron, John, & Co., Ltd.	22
Griffiths Hughes, E., Ltd.	10
Guest, Thos., & Co., Ltd.	12
H.S. Bottle Co.	xxviii
Haller Laboratories, Ltd.	xxv
Harman Dietetic Laboratories, Ltd.	xxviii
Harvey & Co. (Dublin) Ltd.	Leader Page
Home Health Services Ltd.	26
Hough, Hoseason & Co., Ltd.	12
Ilex Supply Co., Ltd.	10
Imperial Chemical (Pharmaceuticals), Ltd.	19
Infulcol, Ltd.	xv
Innoxia	xiv

(continued overleaf)

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It is indicated in all forms of
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etric shock, collapse following sub-
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ng; and cardiac and respiratory
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INDEX—(contd.)

International Laboratories, Ltd.	xvii	Pascall Engineering Co.	
Ionic Laboratories, Ltd.	iv	Phillips, Chas. H., Products, Ltd.	
James, Patrick, & Co.	xvi	Porteus, Geo., & Sons (Leeds), Ltd.	
Jarvie, Hugh & Co., Ltd.	xiii	Potter & Clarke, Ltd.	
Jeffreys, Miller & Co., Ltd.	22	Prentice, J., (London), Ltd.	
Johnson & Johnson (G.B.), Ltd.	xxi	Promedico Products, Ltd.	
Jones, W. H., & Co. (London), Ltd.	Leader Page	Rabok Manufacturing Co., Ltd.	
Kay Bros., Ltd.	29	Rendell, W. J., Ltd.	
Kearsley, C. & G., Ltd.	9	Reuter, R. J., Co., Ltd.	xxiii,
Keeling & Walker, Ltd.	ii	Rex Containers, Ltd.	
Keenedge, Ltd.	xxix	Robinson & Sons, Ltd.	
Kellys, J., (London), Ltd.	iii	Rodmill Chemical Co., Ltd.	
Kerfoot, T., & Co., Ltd.	4	Rooney, Robert A., & Sons	
King, G., & Co.	x	Roura & Forgas, Ltd.	
Khan, S.	Leader Page	Sangene, Ltd.	
Knox, John, Ltd.	34	Savory & Moore, Ltd.	
Kolynos (Sales), Ltd.	xxvii	Sessions, W., Ltd.	
Landman, R. J., & Co.	xxix	Shadforth Prescription Service	
Lang, Jules (Optical), Ltd.	xxix	Sharp & Dohme, Ltd.	
Lax-Vita Ltd.	xxix	Sherley, A. F., & Co., Ltd.	
Lemke, B. L. Inc.	xii	Sigal, S., & Co., Ltd.	
Lennard Lee-Narvill & Co.	xxv	Simpson, J. W., (Chemist), Ltd.	
Lilly, Eli, & Co., Ltd.	Front Cover	Soft Drinks Industry	Leader
Liverpool School of Pharmacy	Leader Page	Songo	
Lofthouse & Saltner, Ltd.	32	Southon Laboratories, Ltd.	
London & Provincial Factors, Ltd.	Leader Page	Splendor, Ltd.	
London Pharmaceutical Laboratories, Ltd.	xv	Stemco, Ltd.	
Luna Inserts, Ltd.	vii	Stretch, Wilfred, & Co., Ltd.	
Macdonald, J.	vii	Suter, A. F., & Co., Ltd.	
Marshall's Proprietaries, Ltd.	34	Tampax, Ltd.	
Maw, S., Son & Sons, Ltd.	9, 11	Thackray, C. F., Ltd.	
Monsanto Chemicals, Ltd.	1	Thermogene Co.	
Moore Medicinal Products, Ltd.	16	Thornfield Godfrey, Ltd.	
Mumford, R. G., & Co.	xxix	Tintex Dyes	
Napp, H. R., Ltd.	xxx & Leader Page	Twinkle Headache Powders	Leader
National Glass Works (York), Ltd.	v	Velvet Crepe Paper Co., Ltd.	
Newball & Mason, Ltd.	30	Wander, A., Ltd.	
Newsome, A. (Eezit Morley, Ltd.)	16	Ward, Blenkinsop & Co., Ltd.	
Niblett, C. P.	9	Westminster Laboratories, Ltd.	
Owbridge, W. T., Ltd.	31	White, J. F., & Co., Ltd.	
Oxo, Ltd.	36	Wilson & Mansfield, Ltd.	
Ozonal Laboratories	30	Wilson Meats, Ltd.	
P.A.C. Chemicals, Ltd.	32	Winox	
Palatine Potash, Ltd.	iv	Wright, Layman & Umney, Ltd.	Cov
Paragon Razor Co., Ltd.	xvi	Zeal, G. H., Ltd.	
		Zems, Ltd.	

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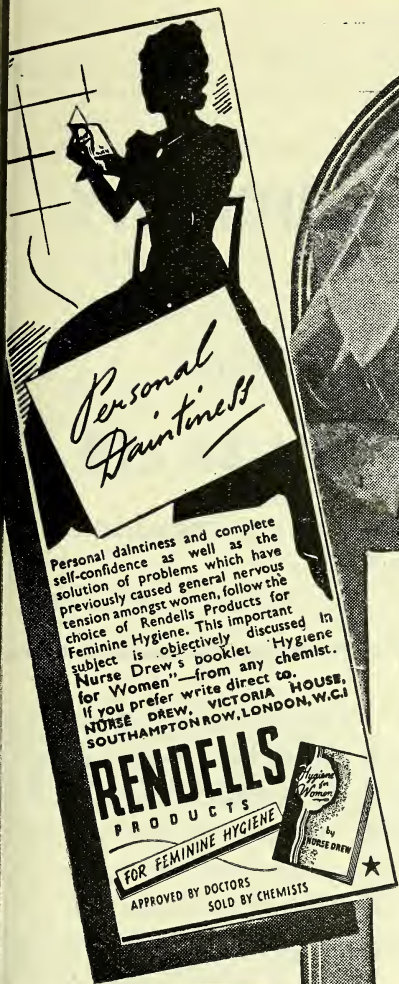
LIST PRICE 2s. 2d. plus tax
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BRIGHTON

Founded 1839

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Available in 3d. packets & 1/6 tins

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To the customer in search of a remedy for nasal congestion resulting from head cold or catarrh you can make this promise for Karsodrine — *that within 3 seconds of taking two sniffs up each nostril from the Karsodrine Inhaler the congestion will recede.* Karsodrine will keep your promise because its volatile vapours, including amphetamine, afford an instant and prolonged contraction of congested nasal mucosa. The lower price and the convenient ONE-CAP container are added Karsodrine selling points.

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2nd. Due to the position, all additions can only be treated as separate orders.

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with improved sweetened base. Again extensively advertised

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3 doz. and over carriage paid.

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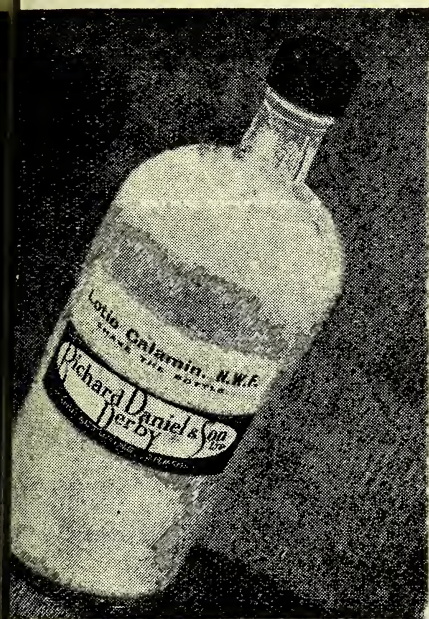
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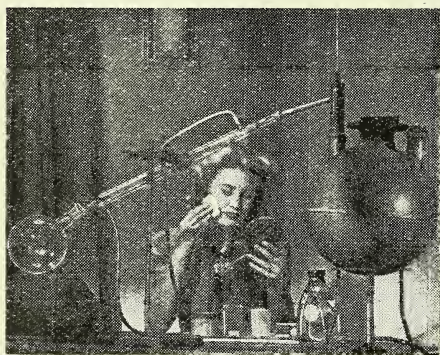
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UP YOUR STREET

is a proverb which says—
 "What is the use of running unless
 you are on the right road?"

Members of the N.P.U. believe
 in the marketing of pharma-
 ceutical products the right road runs
 through and by way of the retail
 chemist.

to us. It has been the basis of
 the Company's trading policy ever
 since the reconstruction of J. W.
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 present management took control.
 We look upon the retail chemist as
 an indispensable ally and aim to give
 him all the support an ally expects.

Chemists have already noticed three
 things. First Simpson's are supplying
 therapeutically sound products which
 are well manufactured, live up to the
 claims made for them and meet the
 present-day needs of the public.
 Secondly, Simpson's products are

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 really generous margin of profit.
 Thirdly, Simpson's products are
 supported by well-conceived and
 conservative advertising.

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 Scheme since its inception. They
 also have the comforting assurance
 that Simpson's are at the back of
 their purchasing in that, if they over-
 buy, Simpson's will readily exchange
 any end-of-season surplus for more
 seasonable goods.

Goodwill cannot be hustled into
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 long period of time it can only be
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*Announcement by J. W. Simpson (Chemist)
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PEOPLES REMEDY for
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Powders 2d. each, 1/3 per pkt.
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**POWDERS
AND
TABLETS**

SAFELY REMOVES SUPERFLUOUS HAIR FROM ARMS &



The Dhaussy PAD
HAIR REMOVE
AND
SKIN BEAUTIFIER
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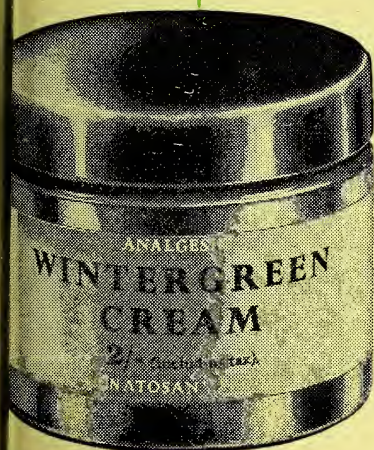
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DOUBLE SIDE PAD
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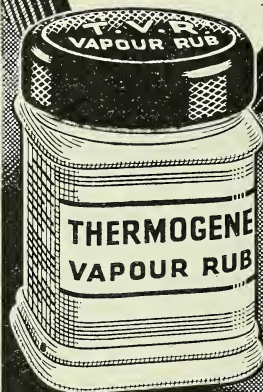
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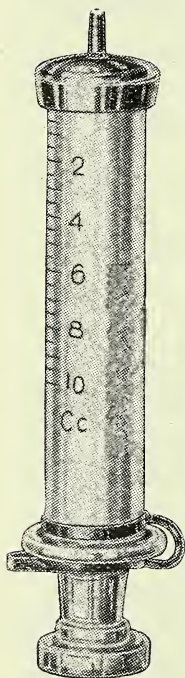
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the speedy specific against

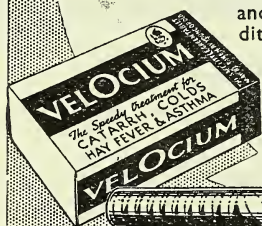
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TABLETS

(Indicated in all types of dry cough)

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URICURE TABLETS
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The Meteor smashes the air speed records!

NERVOIDS

will smash attacks of 'flu, colds and the worst headaches, neuritis, neuralgia, etc.

Your customers will appreciate your keeping adequate stocks this winter and the line shows generous profits on best terms.

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**Every Cough
is a Call★
for**



★ To enable you to satisfy more of the "calls" at your own counter, preference in production is given to the 1/5 size, and supplies of the 3/5 size may be intermittent.

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Ozoline kills pests at all stages including eggs and larvæ.

It is non-inflammable, non-greasy, non-staining, non-toxic, and has a delightful pleasant odour.

Ozoline contains 8% active ingredients.

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Medicated (Lethane) Hair Oil—N.W.F.
Undetectable in use. Rapidly effective.

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Benzyl Benzoate—25%

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Capsules. Good stock
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profit bringers. Write
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The Chemists'
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over 75 YEARS

A 9d. bottle makes 6 gallons of
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The Laboratory
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MEDICATED (LETHANE) HAIR OIL N.W.F.

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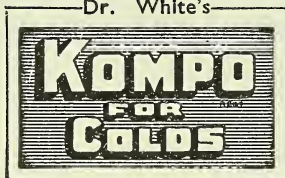
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Boxes of 24 Capsules 11/- doz., 60, 22/- doz.,

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RETAIL
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WHOLESALE
8/- per doz.
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summarising post-war opportunities, special notices, new packaging and new products

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15 " " ... 11/10
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MILK

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WHO WANT IT

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In one popular size only during
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J. & J. BEULAH LIMITED,
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**AN EFFICIENT MEDICINE AND AN
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8 oz. BOTTLES

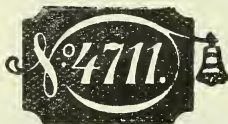
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"with the soft seamless knitted covering"

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'KUMFEX' SOLUBLE (all with loop ends)

★ Supplies unfortunately restricted at present

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BORIC ACID OINTMENT

In glass jars, 9d. plus 1d. purchase tax
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(Subject to trade discount)



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Trade Mark Brand

Dihydromorphinone

Improved Morphine Preparation

The action of "Dilaudid" is more rapid, more lasting and five times as strong as that of morphine. Its analgesic power predominates, narcotic secondary effects are slight, and peristalsis is but little influenced. In combination with scopolamine "Dilaudid" is injected as a pre-anaesthetic measure, also to induce twilight sleep. The "Dilaudid" Atropine combination is especially indicated in pains due to spasms.

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Leptazol with Dihydrocodeinone

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Leptazol with Ephedrine

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Beef Extract
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A delicious
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DIGESTION of
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CONTENTS

	Page		Page
Births	104	M.O.H. Bulletin to Pharmacists ..	120
Business Changes	103	New Carbon Isotope	107
Coming Events	108	Nottingham on Proposed By-Law ..	119
Company News	102	No. 17 Bull Street, Birmingham ..	112
Correct Use of DDT Insecticides ..	107	N.P.U. Secretary at Manchester ..	106
Correspondence	128	Overseas Trade News	124
Council's View on Election Canvassing	114	Personalities	105
Deaths	104	Pharmaceutical Society of Northern	
Editorial Articles:—		Ireland: Council Meeting ..	109
" Mistaken in Policy, Wrong in		South African Training Scheme ..	106
Ethics and Bad in Law " ..	117	Surface Activity (Part II)	110
Operation Mulberry-bush	117	Topical Reflections	101
Antibiotics	118	Trade Marks	128
Liverpool's First Post-War Dinner ..	115	Trade Notes	103
Marriages	104	Trade Report	125

NEWS OF THE WEEK

Confectionery Zoning to End.—From February 26 manufacturers of sugar confectionery will be free to accept personal visits vouchers from customers outside the area to which they are at present restricted. From March 2 they will be permitted to resume supplying over the whole country so far as their limited supplies permit.

Discussion with Scottish Doctors.—The Secretary of State of Scotland (Mr. Joseph Westwood, M.P.), accompanied by the Joint Under-Secretary of State (Mr. George Buchanan) met representatives of the medical and dental professions in Scotland recently and discussed with them relevant aspects of the Government's National Health Service proposals. Similar discussions are to take place with local authorities and representatives of the voluntary hospitals.

Resumption of Merchanting Urged.—The earliest possible restoration of the merchanting organisations in the interests of the home and export industries is urged in a booklet issued by the British Federa-

tion of Commodity and Allied Trade Associations, Plantation House, London, E.C.3. The booklet fully explains the part played by the merchant in the national economy and is of particular interest at the present time as the Government is believed to be considering future commodity policy.

J.I.C. Wage Rates Increase.—A second agreement on wage rates in retail pharmacy has been issued by the National Joint Industrial Council for Retail Pharmacy over the signatures of the joint secretaries (Messrs. G. Maurice Hann and H. Noble). The new agreement provides for the following increases in minimum weekly rates:—Qualified manager or manageress (a) controlling a staff of three or more full time employees, 10s., (b) controlling a staff of less than three full time employees, 7s. 6d.; qualified assistant (male or female), 7s. 6d.; assistant who has completed articles of pupilage but has not qualified, 5s.; shop assistant (male or female), 3s.; other male employees, 3s.

South-west London Dinner and Dance.—Over 100 guests attended a New Year

reunion dinner and dance arranged by the South-west London Chemists' Association on January 16. Mr. W. Atkinson (president) occupied the chair and proposed the toast, "The Pharmaceutical Society" in a somewhat critical speech, to which a reply was gracefully and good-humouredly given by Mr. F. G. Wells (a past-president of the Society). "The Association" was proposed by Mrs. J. K. Irvine, M.B.E., who recalled the early days of the Association, of which she became a member in 1917; she pointed out that it had provided two presidents of the Pharmaceutical Society, two pharmaceutical editors, and an examiner. Mr. Peter Irvine contributed a "Scots interlude" to the entertainment.

Penicillin Address at Birkenhead.—Bir' kenhead and Wirral Pharmacists' Association on January 22 heard an address on "Penicillin" by Mr. A. L. Bacharach, M.A.

South-eastern Associations.—Mr. L. G. Lomas, M.P.S., 26 Brantwood Road, Herne Hill, London, S.E.24, has been appointed general secretary of the South-eastern Associations in place of Mr. F. H. Wallom.

Grimsby to Hold Jubilee Function.—The Grimsby and District Pharmacists' Association is celebrating its jubilee this year and is holding a jubilee dinner and dance in the Town Hall, Grimsby, on January 31. The number of tickets available is limited and anyone wishing to attend should apply to the secretary.

Channel Islands Supply Position.—Supplies of proprietary and bulk goods are now freely available for Channel Islands pharmacies, and business is rapidly returning to normal. A correspondent writes "The effect of a sufficiency, if not an abundance, of good food on persons who have been progressively starved for five years is keeping many dispensers busy."

Essay Competition Awards.—In a competition organised recently by the National Amalgamated Union of Shop Assistants, Warehousemen and Clerks in connexion with wage regulation in the distributive trades the prizes were awarded as follows: Mr. Whitehouse, London, £5; Mr. Sandy, London, £2; Sergeant Cradock, Hull, £2; Mr. Newman, Truro, £1.

Pharmacy Burglary.—The pharmacy of Mr. William Henderson, M.P.S., 141 Kingsway East, Dundee, was broken into by a twenty-two-year-old soldier on January 17. A police constable gave chase and finally caught the offender in an air-raid shelter.

It is understood that fifteen lipstick re were taken from the shop, and that man was in possession of a German revolver and twelve rounds of ammunition.

West London N.P.U.—The West London Branch of the National Pharmaceutical Union held a meeting on January 9, at which Mr. E. A. Brocklehurst (chairman, N.P.U. Executive) spoke on "The N.P.U. and 1946." He referred specially to the Business Purchase Fund. During a lively discussion which followed, dissatisfaction was expressed over the position of rubber hot-water bottles and the shortages of liquid paraffin and dispensing bottles.

Retailers and Purchase Tax.—Retailers face losses totalling millions of pounds if the Chancellor of the Exchequer insists on abolishing purchase tax without making provision for refund in respect of taxed stocks on hand. This was stated at a meeting convened in London on January 8 by the National Chamber of Trade and attended by twenty-seven trade organisations, including the Proprietary Articles Trade Association and the Photographic Dealers' Association.

Twenty-four Hours' Service Sought.—Chemists in Brighton have been approached by the Brighton Health Committee with a view to securing all-night opening of some pharmacies in the town. Mr. Archibald Wilson (secretary of the Brighton Association of Pharmacists) stated recently in an interview that all-night pharmacies were out of the question at the moment; arrangements for shops to remain open all night would probably be made under the new National Health Service scheme.

Eire Examination Results.—The following candidates passed with honours in the January Licence examination held by the Pharmaceutical Society of Ireland:—Julius Francis O'Gorman (with silver medal marks), Michael Joseph Duane, Hanna O'Keeffe, and Irene Rebecca Manley. The following passed:—Jeremiah Joseph Davison, Martin Farrell, Nora Fox, Anthony Bernard Mary Hensey, Christopher Gerard Burke Higgins, William Irwin, Patrick McGee, Bridget O'Donovan, Michael Richard Spittle, Michael Gerrard Whelan, and Alexander Goodliff Wilson.

Proposed Courses in Penicillin.—Courses of instruction for practising pharmacists in the handling and dispensing of penicillin are proposed at the School of Pharmacy, Robert Gordon's Technical College, Aberdeen. The suggestion has been put forward to the governors of the College following

ing of teachers of pharmacy in London engaged by the Pharmaceutical Society. At the meeting it was reported that, in the future, penicillin would be released for general use. Owing to its high degree of stability and the necessity for rigid control, it was considered that some form of instruction should be given to practising chemists.

Dundee Whist Drive and Dance.—Over 100 members and friends of the Dundee Whist and Central Scottish Branch of the Pharmaceutical Society met for a whist drive, supper and dance held in Dundee on January 10. Mr. J. Anderson (chairman, North British Executive) acted as card-master for the whist and Mrs. Forbes, North (wife of the chairman) presented the prizes. Mr. Forbes (chairman) welcomed the guests, and Messrs. Maconochie and Fraser were M.C.s for the dance. £5 was collected for the Society's Benevolent Fund.

Sheffield Film Show.—Sheffield Branch of the Pharmaceutical Society were given a film show by the Scientific Film Society on January 16. The first film dealt with the preparation of DDT for human use, and the many experiments conducted before it was considered safe enough for distribution. The second dealt with the manufacture of artificial rubber, giving the idea of its formula and of the raw materials with which experiments were made. Physical properties of natural and artificial rubbers were graphically compared. The third film dealt with the distillation of crude petroleum on a commercial scale.

Dublin Pharmacist Addresses Antiquarians.—Before the Sligo Antiquarian Society recently Mr. Tony Toher, L.P.S.I. (a son of Mr. T. P. Toher, M.P.S.I.), gave a scholarly lecture on "Pollen Analysis." Mr. Toher mentioned that the modern study of pollen analysis had originated in Sweden, and its development was the work of Scandinavian scientists. By analysis of pollen diagrams it had been found possible to divide the post-glacial period into five phases, using them also to indicate periods of time. Members of the Society decided that at a future date they would arrange for a practical study of pollen analysis, making visits to suitable districts in the locality.

Whist Drive at West Ham.—The West Ham and Eastern (London) District Association of Pharmacists held a whist drive and New Year party in Manor Park, on January 10, in aid of the Pharmaceutical

Society's Benevolent Fund. Mr. Gordon Harris (president of the Association) and Mrs. Harris received the guests. Prize-winners were: Mr. W. J. Thurston, Mesdames V. D. Howard, F. Stone, and S. A. Evans, and Miss Jackson; Miss Joan Robinson was successful in a musical chairs competition. Songs were rendered by Messrs. D. S. Evans and D. Whitehead, accompanied by Mr. W. Mansfield, who acted as M.C. for the party, Mr. A. Blackley taking charge of the whist. Refreshments were provided by a ladies' committee, presided over by Mrs. Harris and convened by Miss M. B. Jones.

Pharmaceutical Society Examination Results.—The following candidates have satisfied the examiners in the Pharmaceutical Chemist examination held in England and Wales in January:—

Byron, Gwendoline M., Walsall.
Clark, Stanley B., Bury.
Dalton, Margaret E., Sudbury, Suffolk.
Davies, Audrey H., Swansea.
Davies, Alexander E., Newport.
Dawson, Cyril, South Harrow.
Garner, William B., Birmingham.
Hartley, Nora, Rochdale.
Jones, Verina M., Tylorstown.
Lister, Derek B., Keighley.
Magell, Joshua, Cardiff.
Myers, Leslie, Rhyl.
Oxford, Albert D., Eastney.
Pearson, John E., Grantham.
Peterson, Barbara, Ewell.
Rivers, Stella M., Cheadle Hulme.
Searle, Hazel M., Steyning.
Williams, Helen, Aberystwyth.

The following were successful in Scotland:—

Briggs, Margaret H., Halifax.
Brown, Kenneth C., York.
Hennigan, William, Edinburgh.
Hunter, Adam, Menstrie by Stirling.
Ogg, James D., Montrose.
Salmon, Shirley, Dewsbury.
Wharram, Geoffrey, Leeds.

Manchester Joint Research Council.—The first year's work of the Manchester Joint Research Council, composed of representatives of the Manchester University and the Manchester Chamber of Commerce, was reviewed at the annual meeting of the council held recently when the chairman (Mr. A. H. S. Hinchliffe, J.P.) said the council had been anxious to provide a platform for free discussion amongst members, and to encourage new ideas that would ultimately result in bringing science into even closer relationship with industry. The headquarters of conferences and discussions was intended to be the University, which would lend the proper inquiring and scientific atmosphere, which was important to

remove any industrial suspicion. The day-to-day information service for industrial inquirers would be centred at the Chamber of Commerce. The joint secretariat (Mr. Cooper at the University and Mr. Ainsley at the Chamber) would insure that the council was a proper joint enterprise.

New Organisation of Employee Pharmacists.—A National Organisation of Employee Pharmacists was formally constituted in London on January 15, with the following as provisional officers: *Chairman*, Dr. H. Davis; *Vice-chairman*, Miss C. Mozley-Stark; *Joint Secretaries and Registrars*, Messrs. F. H. Connelly and J. E. Shinner, 91 Eastern Road, Romford, Essex; *Treasurer*, Mr. B. E. Phillips. The officers, with the following, constitute the provisional Council: Mr. G. H. Armitage, Miss M. E. Brighten, Messrs. W. Burke, D. A. Paterson, T. S. Downs and H. S. Grainger, the Misses E. F. Hayward, M. C. Leather, D. D. Miller, Messrs. W. Phillipson and J. Ross-Mansell. A manifesto issued over the signatures of Council members declares that it is impera-

tive that employee pharmacists should exercise the fullest possible influence authority within the Pharmaceutical Society which their numbers and position demand. Membership of the new organisation is to every employee pharmacist, the subscription being 2s. 6d. The provisional Council published a draft statement lining the objects and policy of the organisation. At an early date district meetings of subscribers and interested employee pharmacists will be convened for the purpose of discussing the draft statement of objects and policy, and to elect a representative to attend a national meeting, at which proposals will be finally discussed, amended and adopted. In instances where the conduct of employers is deemed to be prejudicial to the interests of employee pharmacists, the organisation will make representation to the Council of the Pharmaceutical Society and/or trade union organisations for appropriate action to be taken. Copies of the draft statement and all information can be obtained from the joint secretariat.

OFFICIAL ANNOUNCEMENTS

Development Areas.—Two new areas are to be scheduled as development areas under the Distribution of Industry Act. They are the borough of Wrexham and certain adjoining districts, and the county borough of Wigan and St. Helens and certain nearby districts. The Wrexham development area will probably be managed by the existing Welsh Trading Estate Co., but an entirely new Government-financed trading estate company is proposed to manage the Wigan-St. Helens development area. Mr. George Gibson (chairman, North-west Regional Board, Board of Trade) has consented to become the chairman of the new body.

Photographic Restrictions to Go.—The Board of Trade will shortly be making an Order (The Limitation of Supplies (Photographic Goods) Order, 1946) removing the restrictions imposed by the Limitation of Supplies (Photographic Goods) Order 1945 on the supply of cameras and accessories and sensitised photographic material. The Ministry of Supply is now responsible for cameras and accessories, and the Board of Trade will remain responsible for sensitised photographic material. Removal of control will not mean that supplies of cameras and sensitised material in the shops will be at once increased, for the change-over from production for war-time needs to civilian production necessarily takes time. The Order removing the restriction requires

persons whose names are on the Register on January 31 to submit returns showing the value of goods controlled under the Limitation of Supplies (Photographic Goods) Order, 1945, supplied by them during the period August 1, 1945, to January 31, 1946. A copy of the appropriate form (Misc. 100) will be sent to each person concerned. A manufacturer who has not received his copy by March 18 should apply to the Assistant Chief Accountant, Board of Trade (Miscellaneous Section), North Gate, Prince Albert Road, London, N.W.8. Application should not be made before March 18.

Approval of Pest-control Products.—The Ministry of Agriculture and Fisheries and the Department of Agriculture for Scotland are prepared to receive applications for official approval of proprietary Paris green, derris-petroleum oil washes, thiocyanate petroleum oil washes, sulphur products (sulphur dusts, flowers of sulphur, greasy sulphurs, wettable, dispersible and colloidal sulphurs, and sulphur preparations used for fumigation by burning), DDT insecticides (as dusts and sprays), DDT-petroleum oil washes, benzene hexachloride insecticide (as dusts and sprays) and benzene hexachloride-petroleum oil washes. Requests for the appropriate application forms should be sent to the secretary, Advisory Committee, Plant Pathology Laboratory, Mill Road, Harpenden, Herts.

TOPICAL REFLECTIONS

Harrison Memorial Lecture

The award of the Harrison Memorial Medal to Mr. R. R. Bennett (p. 74) is both appropriate and popular. Mr. Bennett's many services to pharmacy were summarised by the president of the Pharmaceutical Society at the ceremony of presentation; and our indebtedness to this distinguished pharmacist is increased by the lecture in memory of Edward Frank Harrison. As pharmacopœia revision was the subject of the lecture, I may perhaps be permitted to amplify the lecturer's reference to one aspect of that revision. Mr. Bennett alluded, with his well-known bonamy and tact, to a minor grievance of pharmacy, the long-drawn failure of the General Medical Council to invite the aid of pharmaceutical experts in sufficient numbers and at all appropriate stages of revision. We have only to read between the lines of the prefaces to the British Pharmacopœias of 1867-1914 inclusive to see how antiquated was the medical conception of how this official book should be compiled, and how slowly the light of freedom dawned in that quarter. This persistent trouble came to a head about the beginning of 1926. THE CHEMIST AND DRUGGIST was promptly on the scene with a series of editorial articles on the compilation of pharmacopœias; and at the annual meeting of the British Pharmaceutical Conference in the same year the late Mr. Herbert Skinner included in a paper on the subject a table (compiled in your editorial department) showing that in most of the twenty-one countries appointing pharmacopœia commissions the number of pharmaceutical members of these commissions was greater than the medical membership.

Medical Criticisms

Help arrived from the medical side during the same months. In January 1926 the editor of the "Lancet" and Professor A. J. Clark (in the "British Medical Journal") called attention to deficiencies in the existing Pharmacopœia and demanded reform. Professor Clark was the more outspoken of the two critics. He roundly accused the leaders of the medical profession of merely following popular custom in their selection of drugs or establishing a vicious circle, and of defending faulty standards. A little later the Pharmacopœia Committee of the General Medical Council held a conference with representatives of several other bodies,

including the Ministry of Health, the Royal Society, the Medical Research Council, and the Pharmaceutical Societies of Great Britain, Ireland, and Northern Ireland. Your report states that many suggestions were offered by the visitors, and that they were asked to meet the Committee again. The outcome of the negotiations that followed was that in 1928 a Selection Committee of seven members nominated a Pharmacopœia Commission consisting of Dr. A. P. Beddard, Mr. R. R. Bennett, Dr. J. H. Burn, Professor F. R. Fraser, Professor H. G. Greenish, Professor J. A. Gunn and Mr. Thomas Tickle. Dr. C. H. Hampshire was appointed secretary. Great as is the superiority of the 1932 British Pharmacopœia to its predecessor of 1914, it disappoints in one respect. We have been told that it is to be regarded as a book of standards rather than a book of formulas. That is all very well as an apology for a drastically curtailed formulary. But standards may soon be superseded; formulas need not be. We may expect the representatives of pharmacy on the Commission to keep this matter in mind.

Scientific News

It is worth while to call attention to the amount of space (more than six pages in all) allotted in your last week's issue to news of scientific work. This, perhaps the least spectacular of the kinds of "matter" (a printer's term) which go to make up your weekly quota, may not always receive the scrutiny it deserves. The first of the three principal items of this type is a letter from Dr. Percival Hartley and Dr. C. H. Hampshire on the standard of potency for vitamin B₁. Everyone will be glad that this point has been cleared up. The next item referred to is a report of a helpful lecture and discussion in Edinburgh on penicillin. Extensive as is the work already done on this intriguing addition to materia medica, our desire for further knowledge remains, and Mr. Gordon Perrins has gone far towards satisfying it. Lastly, the opening instalment of an address by Mr. W. Cooper on surface activity shows pure and applied science in union. Let no one protest that this is a highbrow subject: it comes home to all who make toilet preparations, and there is no reason why those who merely sell them should not know something about them.

Xrayser

COMPANY NEWS

STATE CHEMICALS (LONDON), LTD. (P.C.).—Capital £100. Manufacturing chemists, etc. Directors are to be appointed. R.O.: 203 Regent Street, London, W.1.

SCOTTISH LABORATORIES, LTD. (P.C.).—Capital £5,000. Packers of beauty and medicinal preparations, etc. W. R. Bruce, E. Jessamine and A. E. Davidson, directors. R.O.: 7 Great Castle Street, London, W.1.

F. M. & B. CRANBORNE, LTD. (P.C.).—Capital £100. Manufacturers of and dealers in chemicals, etc. Barbara Roberts is the first director. R.O.: 30 Brown Street, Manchester.

MEAKINS CHEMISTS (EVESHAM), LTD. (P.C.).—Capital £4,000. Wholesale and retail chemists. Norman M. Johns and Rosa Johns, directors. R.O.: 3 Market Place, Evesham.

BENEDICT FRIARS, LTD. (P.C.).—Capital £100. Wholesale and retail manufacturing chemists. Owen E. Roberts, M.P.S., and John Roberts, M.P.S., directors. R.O.: 11 Mathias Terrace, Penydarren, Merthyr Tydfil.

ISOPAD, LTD. (P.C.).—Capital £500. Manufacturers of electro-medical appliances, electrical heating pads, etc. Directors are to be appointed. Solicitors: Marris & Shepherd, 27 Chancery Lane, London, W.C.2.

WILKINSON'S (CHEMICALS), LTD.—Capital £2,000. Manufacturers of and dealers in chemicals, drugs, etc. Arthur Youd, Albert V. Youd, Harry Rhoades and John B. Gower, directors. R.O.: Arcade Buildings, Station Road, Blackpool.

HAWKES' MEDICAL HALL, LTD. (P.C.).—Registered in Dublin. Capital £100. Chemists, druggists, etc. Kathleen M. Hawkes, 2 South Main Street, Bandon, co. Cork and Kathleen Hawkes, Kilbrogan Hill, Bandon, co. Cork, directors.

RHUMUV CO., LTD. (P.C.).—Capital £2,000. To acquire the business of the Rhumuv Co. for the sale of certain medicated herbal tablets for human use, carried on by Joseph A. Knowles at Hallam Grange, Sheffield. Eric J. Long, director.

DIXON SMITH (CHEMISTS) SILLOTH, LTD. (P.C.).—Capital £2,500. To acquire the business of chemists, etc., carried on by A. J. and Doris A. Dixon at Station Road, Silloth. Doris A. Dixon, M.P.S., and A. J. Dixon, directors. R.O.: As above.

N.E. LANCASHIRE MINERAL WATER BOTTLERS' ASSOCIATION, LTD.—Company limited by guarantee, without share capital. To take over the whole of the property and assets and liabilities of North East Lancashire Aerated Water Bottlers' Trade Association. R.O.: Artillery Street, Blackburn.

E. SALLIS, LTD. (P.C.).—Capital £8, To acquire businesses of a manufacture elastic hosiery, bandages, belts and trunks carried on by Ernest Sallis, sen., as Sallis & Woodward, Saxton & Co., Vernon Works and Northgate, Basford Nottingham. Ernest Sallis, sen., J. Sallis, Ernest Sallis, jun., and Thomas Smith, directors. R.O.: Vernon Works Waterford Street, Old Basford, Nottingham.

DIXON, LTD.—Profit for the year ended December 31, 1945, amounted to £12,8 against £5,852. Dividend is 12½ per cent.

BANKRUPTCY DISCHARGE APPLICATION Lewis Weinstein, shop assistant, 177 Dals Lane, London, E.8, lately carrying business as a surgical appliance retailer under the name of Bennet & Co., at above address. Hearing, February 5.

Compulsory Liquidation.—ALLAN STAPLIES, LTD., 5 Fryent Way, Kingsbury London, N.W.9. First meetings of creditors and shareholders under compulsory liquidation were held on January 2. The chairman reported that a winding-up order was made in respect of purchase tax arrears. The company was incorporated in March 1944 with an issued capital of £100 to acquire and carry on the business of hairdressers and chemists' sundriesmen under the style of Marlene Products. Purchase price was stated to be £2,250 for goodwill and £5 for stock, at cost price; the business was chiefly with multiple stores, chemists and hairdressers. Balance sheet for the year ended February 1945 showed a turnover of £8,370, gross profit of £1,648, but a loss of £793. In June 1945 the company was prosecuted for failing to make return for purchase tax purposes. A nominal fine was inflicted, the returns having been submitted before the trial, and £800 having been paid on account of the liability of £1,214. No statement of affairs had been lodged, but the unsecured liabilities were estimated at £2,600, exclusive of £1,740 stated to be due in respect of loans. Assets were valued at £1,050.

TRADE NOTES

Sweetened Base Again.—Hough, Hoseason & Co. Ltd., Manchester, announce that their throat tablets are now again being marketed with a sweetened base and are being extensively advertised. Particulars of terms are given on another page.

England Visit.—Mr. J. M. Vora, proprietor of the Eastern Mercantile Co., Bombay, India, is at present on a visit to this country and desirous of contacting manufacturers seeking a manufacturers' or agents' agent in India. An announcement appears on another page of this issue.

Leak-free Applicator.—Clay & Abrahams, manufacturing chemists, Liverpool, 1, point out that Ephedrol brand preparation for the relief of colds and catarrh is supplied in a patent nasal-application bottles which are secure and easier to use than sprays or drops, and can be carried in handbag or pocket without fear of leakage.

Analgesic Tablets.—Inquiries for Acordine pyretic and analgesic tablets containing caffeine, aspirin, calcium lactate and cinnamon, should be sent to Lewis & Melchior, Ltd., 4 John Adam Street, London, W.C.2. The tablets are packed in tubes of twenty and are distributed through trade wholesalers.

Calls on Doctors.—Moore Medicinal Products, Ltd., Aberdeen, Scotland, state that, at the beginning of the year, they have organised calls on doctors throughout England, Scotland and Wales by a team of pharmacists, in order to make known the value of their Brovon series of preparations for the treatment of asthma and bronchitis.

Greetings from Advertiser.—The associated companies Carnegie Chemicals (Wellingborough), Ltd., and Carnegie Quinine Works, Ltd., devote their announcement on the inside cover of this week's issue of THE CHEMIST AND DRUGGIST to a 1946 greeting to clients. They point out that Tewin Road, Welwyn Garden City, is the only address of these companies. All communications should be sent there.

Exclusive Cosmetics.—The Pentnor range of cosmetics and toilet preparations, manufactured by Ruff & Co., Pentnor Laboratories, 128 Atkins Road, London, S.W.12, is claimed to have an exclusive appeal based on a sale that has increased during their reigns. The distributors for Scotland and Northern Ireland are Pharmaceutical Distributors (Glasgow), Ltd., 187 St. Vincent Street, Glasgow, C.2.

BUSINESS CHANGES

WILLIAM RANSOM & SONS, LTD., Hitchin, Herts, announce that their telephone number is now Hitchin 119-20.

MR. CECIL JACOBS, M.P.S., 97 Melton Road, Leicester, will shortly open a branch pharmacy at 27 and 29 Granby Street.

MR. HORACE GELDARD, M.P.S., has taken over the business of Mr. Wilson Whitworth, M.P.S., 269 Drake Street, Rochdale.

MR. J. JESSOP, M.P.S., has taken over the pharmacy at 9 Hoxton Road, Ellacombe, Torquay, previously owned by Mr. F. E. Knapman, M.P.S.

MR. J. H. BENNETT, M.P.S., has joined the staff of Stafford Allen & Sons, Ltd., London, as the company's representative in the inner London and West of England areas.

BRITISH COD LIVER OILS (HULL AND GRIMSBY), LTD., is the new title of the company formerly known as British Cod Liver Oil Producers (Hull), Ltd. The address of the company remains at St. Andrew's Dock, Hull.

MR. PERCY BATEMAN has been appointed managing director of the British Alliance Oil Corporation, Ltd., Creechurch House, Creechurch Lane, London, E.C.3, as from January 1. Mr. Bateman was for over twenty years manager of Worthington & Boler, petroleum importers and merchants, London, and since December 1940 has been manager of the white oil pool, Petroleum Board.

DR. F. G. BARTON WRIGHT is joining the staff of Ashe Laboratories, Ltd., 120 Victoria Street, Westminster, S.W.1, on February 1. Dr. Barton Wright has been working on the development of microbiological methods at the Cereals Research Station of the Ministry of Food, St. Albans, Herts. He will assume responsibility for all the microbiological and bacteriological work to be done at the Ashe Laboratories by the company's research workers.

MAJOR H. L. WARNER (a director of Courtin & Warner, Ltd., chemical, drug and essential oil merchants, London and Lewes, has rejoined the company after five and a half years' war service. Major Warner was attached to the General Staff from 1941 onwards and received the award of the M.B.E. in the New Year Honours list, 1946. His wife (Flight Officer C. M. Warner, W.A.A.F.) received the M.B.E. in the same list.

BIRTH

McCALLUM.—At Brigg, Lincs, on January 10, Ethel, the wife of Duncan McCallum, M.P.S., formerly of Edinburgh, of a son.

MARRIAGES

COBURN—HANNA.—At the Bay Hotel, Greenock, on January 16, Alexander Coburn, 6 Princes Street, Port Glasgow, to Margaret (Etta) Hanna, Greenock.

MURRAY—CROZIER.—At Cruggleton, Dalry, Galloway, on January 17, Robert Murray, M.P.S., Cairnsmore, Bearsden, to Mary Eleanor Crozier, Cruggleton.

DEATHS

BIRKS.—On January 20, Mr. W. C. Birks (chairman of Raimes & Co., Ltd., wholesale druggists, Micklegate House, York) aged eighty-five. Mr. Birks had been associated with the company, and with the partnership which preceded it, during a period of sixty years. He was held in high esteem by fellow members of the Wholesale Drug Trade Association and particularly by members of the Northern Wholesale Druggists' Association through which he had done much valuable work for the trade generally in the north of England. At one time Mr. Birks was a member of the Council of the Proprietary Articles Trade Association.

BOUCHER.—On January 13, Mr. Charles Ernest Boucher, Ph.C., Bristol, aged seventy-seven. Mr. Boucher was a former chairman of Ferris & Co., Ltd., chemists, Bristol, and had been associated with the company for the whole of his business career. A Jacob Bell memorial scholar in 1889, and B.Sc. (honours) of London University, he passed the Pharmaceutical Chemist examination in 1890. He entered the family business in 1887 and for many years took a prominent part in its management, being managing director from the incorporation of Ferris & Co., Ltd., in 1904, and chairman from 1939. Mr. Boucher was prominent in church affairs in Bristol both as a churchwarden and as diocesan representative of the National Assembly of the Church of England. He was also a member of the Archaeological Society and was at one time a member of the Bristol Education Committee.

FILTNES.—On January 6, Mr. Charles Filtness, M.P.S., Crowborough Cross, Sussex, aged eighty-three. Mr. Filtness qualified in 1888.

HANKEY.—Recently, Mr. Harry Hankey, Sycamore Avenue, Burnley, principal H. Hankey and Co., wholesale chemists, Burnley. Mr. Hankey was for several years in retail business in Accrington Road, Burnley, before he established his wholesale business in Standish Street in 1911. He was an original member of the Burnley Society of St. George. He is survived by his wife and one daughter.

HAWORTH.—On January 4, Mr. Clifford Haworth, M.P.S., Spilsby, Eastfield Cottage, Higher Compton. Mr. Haworth qualified in 1922. For several years he was manager of the 59 Mutley Place, Plymouth, branch of Boots, Ltd. Among those who attended the funeral service at Emanuel Church, Plymouth, on January 11, were Messrs. G. Moss (a director, Boots, Ltd.), T. B. Clarkson (territorial general manager), K. Brown and R. Rams (local branch managers), C. Condy U'Nest (Plymouth Pharmaceutical Committee) and A. G. Madge (secretary, Plymouth Chemical Association).

MARSHALL.—On January 11, Mrs. Margaret Helen Marshall, widow of the late Mr. Robert Marshall, M.P.S., 138 Bonhill Road, Grangemouth.

McCALLUM.—At 18 Castle Avenue, Croydon, Edinburgh, on January 11, 1934, Alexander Phimister McCallum, formerly 8 Meadowbank Place, Edinburgh. Mr. McCallum qualified as a chemist and druggist in 1893.

MITCHELL.—At Janefield Drive, Maxwelltown, Dumfries, on January 5, Mr. James William Mitchell, M.P.S. Mr. Mitchell qualified in 1921.

ORME.—On January 1, Mr. Arthur John Orme, M.P.S., 68 Portland Road, Hove, Sussex. Mr. Orme qualified as a chemist and druggist in 1897.

ROADKNIGHT.—Recently, Mr. Charles Herbert Watson Roadknight, London Pharmacy, Stamford Hill Road, Durban, South Africa. Mr. Roadknight qualified as a chemist and druggist in 1894 and went out to Durban in 1900, opening his own business in 1903.

SHARPE.—Suddenly, on January 13, Mr. Surtees Harry Sharpe, 158 Oxford Road, Cowley, Oxford, aged thirty-five. Mr. Sharpe qualified as a chemist and druggist in July 1932 and was manager for G. B. & W. K. Rose, Cowley.

PERSONALITIES

MR. ERNEST SKUES, M.P.S., this year's president of the Proprietary Articles Trade Association (*C. & D.*, January 19, p. 76) has been for three years chairman of the

retail section of the Council and a vice-president of the Association. He was born and apprenticed in Halifax, Yorks, and after gaining experience in West London and with Reynolds & Branson, Ltd., Leeds, he qualified as a chemist and druggist in 1909. In 1913 he started in business on his own account in

Wandsworth, London, and is now managing director of Barkers (London), Ltd., a pharmaceutical concern with six retail branches and associated companies. Mr. Skues is one of the founders and the present managing director of Unichem, Ltd., and has served as secretary, treasurer and president of the South-west London Chemists' Association, and South-west Metropolitan Branch of the Pharmaceutical Society. He has been president of the London County Pharmaceutical Association and Photographic Dealers' Association, and chairman of the Tooting Chamber of Commerce. In 1935 he was elected a member of the Executive of the National Pharmaceutical Union. He was first elected to the retail section of the P.A.T.A. council in 1935, and as chairman of the section and a member of the executive committee and has played a prominent part in the Council's activities in recent years.

MR. J. W. CARDWELL, M.P.S., 343atham Road, Blackpool, is president-elect of the South Blackpool Traders' Association.

MR. S. J. HAMER, M.P.S., gave an address "The History of Pharmacy" to members of the Contact Club, Beckenham, Kent, on January 8.

LIEUTENANT-COLONEL GORDON M. FRIZELLE, R.A.M.C., son of the late Dr. W. A. Frizelle, Ph.C., Londonderry, has been appointed director of the Public Health Commission of the Allied Commission, Italy.

MR. J. W. BELCHER, M.P., has been appointed Parliamentary Secretary to the Board of Trade, in succession to Mr. Ellis Smith, M.P., who recently resigned.

MR. JAMES DOWNIE, M.P.S., 93 High Street, Strichen, Aberdeenshire, has been demobilised from the Forces and has resumed business at his pharmacy. During his absence the business has been conducted by his wife as a drug store.

MR. PRICE OWENS, New York, has forwarded three gifts of £10 each for Accrington local charities. Mr. Price Owens was formerly on the staff of John Riley & Sons, Ltd., chemical manufacturers, Hapton, near Burnley, Lancs.

MR. T. LLOYD-JONES, M.P.S., of Corwen and Bala, North Wales, has been elected chairman of the Merionethshire Insurance Committee for the coming year, and chairman of the Corwen Branch of the Merionethshire Chamber of Trade.

PROFESSOR IAN MORRIS HEILBRON has been awarded the highest American honour in chemistry, the Priestley medal of the American Chemical Society. He is the first person to whom the medal has been awarded outside the United States.

PROFESSOR WILLIAM HENRY ROBERTS, whose appointment as Liverpool city analyst has been extended a further six months, entered the Liverpool city and county laboratory as an assistant and will complete fifty years as a scientist during the extension.

ALDERMAN ROBERT F. MCCARTNEY, Ph.C., has been accorded the freedom of the borough of Coleraine, co. Londonderry, in recognition of his forty-two years' service on the borough council. He is a former mayor of the town. The resolution referred to his "high character and eminent ability as a public man" and to the "important service he has rendered in the advancement of Coleraine as a past mayor of the borough and during forty-two years of interrupted membership of the Council." Mr. McCartney has also served on the Coleraine Harbour Board and as chairman of the advisory board of the Coleraine Savings Bank. He is an original member and past-president of the Coleraine Bowling Club, a past-chairman of the Irish Bowling Association and Provincial Towns' League, and a member of the Irish Bowlers' Touring Club. He has held every lay office at St. Patrick's Church, Coleraine.

SOUTH AFRICAN TRAINING SCHEME

A SCHEME which provides for intensive courses of training for volunteers and ex-volunteers in the South African Armed Forces has been drawn up by the South African Pharmacy Board, in collaboration with the Directorate of Demobilisation. Special provisions for ex-volunteers to become chemists and druggists have been gazetted. The courses will be conducted at the pharmaceutical departments of the Cape, Natal and Witwatersrand Technical Colleges. The courses will include a refresher course of two or three months for qualified chemists and druggists; a full-time intensive course of one year's duration for ex-volunteers returning to pre-enlistment employment as apprentices or who are otherwise connected with the pharmaceutical profession and who wish to qualify, and a full-time intensive course for ex-volunteers who had served a probationary period of three months with a registered chemist and druggist.

Each volunteer trained under this scheme will be eligible to take the chemists' druggists' special examination, held at completion of the course, and will be entitled to be registered as a chemist or druggist with the South African Pharmacy Board after a period of apprenticeship to be determined shortly, but which will exceed twelve months. Where an volunteer had served an apprenticeship before enlisting he may be registered immediately. Financial assistance for volunteers to undergo the courses may be provided by the Directorate of Demobilisation on the scale applicable to university students, namely, a grant of £250, plus a loan of £600 free of interest until one year after qualifying, and, if this is not sufficient, a loan of £1,250 free of interest for five years. The South African Pharmacy Board has appointed a pharmaceutical selection committee to consider applications from volunteers and ex-volunteers.

N.P.U. SECRETARY AT MANCHESTER

MR. G. A. MALLINSON (secretary of the National Pharmaceutical Union) received a warm welcome when he addressed a district meeting in Manchester on January 16. Mr. H. Steinman (vice-chairman of the N.P.U.) presided. Mr. Mallinson spoke on "The N.P.U.'s Post-War Policy." He said it had been suggested that the N.P.U. should open its door to everyone with a pharmaceutical qualification. He thought this unwise, for pharmacists were already members of the Pharmaceutical Society, so that the only effect would be to create a body competing with the Society, and that was a policy which the N.P.U. could not approve. The N.P.U. was really an offshoot from the Society, formed in 1920 to deal with business matters. Pharmacy had widened its horizon and the prospects ahead were good. The Minister of Health was developing his plans for a National Health Service and had had consultations with the medical profession. An invitation to pharmacists to an interview had been foreshadowed, and the Joint Committee would be able to lay its plans before him. The Committee had a strong case to put before Mr. Bevan. The aim must be an independent pharmaceutical service administered by pharmacists. If the Minister asked for a night-and-day service pharmacists must be prepared to accept it. There was every probability that there

would be dispensing in health centres, and pharmacists must see that all dispensing at such centres was done by pharmacists. Even health-centre patients should be able to have their prescriptions dispensed in outside pharmacy if they wished, by a pharmacist of their own choice.

Payment by Dosage

In the subsequent discussion there was a general agreement that dispensing fees should be based on dosage rather than on the size of the bottle, and the suggestion was made that the system should be incorporated in the N.P.U. dispensing scale. Night service, Mr. Mallinson said, would be decided area by area. He did not favour setting up a central pharmacy responsible for holiday and night service, carrying stock of the rarer drugs, and undertaking difficult dispensing. If pharmacists wished to become a professional body they must stand on their own feet. The N.P.U. had endeavoured to get refrigerators suitable for the storage of penicillin at a reasonable price. As yet no success had been met with, for the Government were taking the whole output for their housing scheme. It was possible that a more stable form of penicillin would be produced. A vote of thanks, proposed by MR. W. WILKINSON and seconded by MR. G. I. THOMAS, was carried with acclamation.

NEW CARBON ISOTOPE

EXPERIMENTS with Carbon 13, a new heavy carbon isotope and a "tracer" material of great importance to biochemical research, have been announced by the United States by the Sun Oil Company and the Houdry Process Corporation. For two years the two companies, in conjunction with leading scientists, many of whom worked on the atomic bomb, have conducted experiments on this rare substance. The first half-ounce of Carbon 13 is said to have cost several thousand dollars to concentrate, less than an ounce has been produced so far. Carbon 13, it is claimed, will be of invaluable help in disclosing the secrets of metabolic diseases, since it enables scientists to follow chemical reactions in the body. Chemically indistinguishable from ordinary carbon, but having a greater atomic weight, Carbon 13 is absorbed in living tissue and undergoes the same metabolic process as does ordinary carbon. But, whereas ordinary carbon cannot be traced as it passes through these complicated chemical reactions, Carbon 13 can be tracked by the use of an electrical device known as the mass-spectrometer and identified with specific bodily functions. For example, Carbon 13 has already been used successfully to determine how fats are broken down in the living cell, a process which scientists have been able only to guess up to now. Other examples of its use include the study of the way in which sugars are oxidised, the effect of insulin on these reactions, or the effects of vitamins and the chemical reactions in which they participate. Experiments have confirmed, too, that carbon dioxide is utilised by animals as well as by plants.

Production of the isotope hitherto has been at the rate of less than half-an-ounce per annum. Since July 1945, the Houdry Corporation has operated a thermal diffusion plant for the concentration of Carbon 13, producing about one-quarter of a gram per month. Two new plants are now to be built which, it is stated, will increase world supplies of Carbon 13 from 500 to 1,000 times. One of the new plants will duplicate the existing thermal diffusion plant and will be erected for the Sun Oil Company at the Houdry laboratories. The other new plant is to be constructed at the Sun Oil's Marcus Hook refinery and will be considerably larger. It will cost approximately \$100,000 and will consist of a series of four or five towers 90 to 100 feet high. When working at capacity, it will be capable of turning out heavy carbon at the rate of approximately 500 grams per month. The plant will operate on the principle of chemical isotope exchange, originated by Dr. H. C. Urey, of the Institute of Nuclear Studies, University of Chicago, a system which has been further improved by the introduction of a catalyst invented by Dr. Allen Reid, formerly an assistant of Dr. Urey and now at Columbia University. Dr. Reid is acting as a consultant for the Sun and Houdry companies. It is expected that production costs at the new plant will be cut to \$40 per gm. from the \$400 level now obtaining in the Houdry plant. Carbon 13, in addition to its importance to medical research which is regarded as equal to that of x-ray, can be used also to produce any of the compounds containing carbon, such as sugar, alcohol, synthetic rubber.

CORRECT USE OF DDT INSECTICIDES

THE Ministry of Agriculture has issued an explanatory statement on how DDT (dichloro-diphenyl-trichloroethane) should be employed to the best advantage in insecticides. As is well known, the chemical is not a finished insecticide; it needs to be compounded for use in the form of dusts, or for application as a wet spray in the form of suspensions or emulsions. Suitably prepared and properly applied, insecticides containing small quantities of DDT will kill a wide range of insect pests affecting crops, including cabbage caterpillars, flea beetles, and apple-blossom weevil. For other pests, such as greenfly, DDT seems less effective or no better than insecticides

at present in use; and on still others (for example, red spider) it has little or no action. When more is known of the best way in which to use them, DDT insecticides may prove of value in the control of pests against which at present they do not seem to be promising, but the fact that it is so generally toxic to insects raises problems in connexion with its agricultural uses.

Effect on "Balance of Nature"

Fears have been expressed that, if DDT is widely used, bees and other pollinating insects, as well as parasites and predators of insect pests, may be killed on a sufficient scale to neutralise the good done by destruc-

tion of pests—that, in fact, the “balance of nature” may be upset. DDT insecticides can undoubtedly kill beneficial insects, but so can many insecticides in common use, and this is no new problem. Most insecticides, if widely and indiscriminately employed, would cause harm in greater or less degree by destroying beneficial insects. In practice, when properly applied on the scale normal in this country, there is little to fear. The disturbance of nature’s balance is local and temporary and the value of the crops saved by appropriate use of insecticides far outweighs the disadvantage. Special care may be necessary with DDT because of its persistent qualities, but there is no good reason to expect that adverse results will follow if insecticides made from it are employed sensibly, with the same precautions, and on the same scale as other insecticides. One precaution that should certainly be taken with DDT, as with other insecticides, is to avoid applying them to fruit trees when in blossom. DDT is less poisonous to man and animals than some insecticides at present in use, but ordinary precautions, of a kind already familiar to users of insecticides (such as avoidance of undue exposure and the prevention of contamination of foodstuffs) should be taken. At the normal strengths in which DDT is used in sprays and dusts, it has been found to be harmless to human beings and livestock.

Time Needed for Final Verdict

Much experimental work has been done in the past year or two, but only recently have sufficient quantities of DDT been available for field experiments on pests of farm and garden crops. For this reason it has not yet been possible to obtain full information about its possibilities and the best methods of using it for various purposes. Every effort is being made to fill in gaps in the knowledge, but experimental work inevitably takes time. Farmers, fruit-growers and gardeners who intend to try DDT insecticides should in the meantime regard the preparations as experimental and use them with due care until there has been time for entomologists and chemists to ascertain in more detail how they can be most efficiently and safely employed. In DDT agriculture has a chemical that shows great promise of being a most valuable addition to the means available for control of many insect pests of crops and so for increasing food production, and it would be unfortunate if the material should be wrongly used in the early stages.

COMING EVENTS

Monday, January 28

SOUTH WALES BRANCH, CHEMICAL SOCIETY. Chemistry lecture theatre, University College, Swansea, at 6 p.m. Professor J. Kenner F.R.S., on “The Separation of Isotopes by Thermal Diffusion.”

Tuesday, January 29

IRISH DRUG ASSOCIATION, Jury’s Hotel, Dublin, Eire, at 8 p.m. Annual meeting.

NOTTS AND DERBY SECTION, BRITISH ASSOCIATION OF CHEMISTS, Moon Hotel, Spondon, Derby, at 7 p.m. Film show.

SCARBOROUGH BRANCH, PHARMACEUTICAL SOCIETY, Scarborough public library, 7.30 p.m. Brains Trust and open discussion on “The Problems of the Pharmacist.”

Wednesday, January 30

LIVERPOOL SECTION, BRITISH ASSOCIATION OF CHEMISTS, Bradford Hotel, Tithebarn Street, Liverpool, at 6.30 p.m. Social evening.

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Cross Keys Hotel, Moor Gate Street, Rotham, at 8 p.m. Film show by Sheffield Scientific Film Society.

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS AND SOUTH-WEST LONDON CHEMISTS ASSOCIATION, 17 Bloomsbury Square, London W.C.1, at 7 p.m. Mr. A. H. McIndoe, C.B.E. F.R.C.S., on “Burns.”

ANGLESEA, NORTH CARNARVONSHIRE AND CRYSTAL BAY BRANCH, PHARMACEUTICAL SOCIETY, Robert Roberts’ Cafe, 243 High Street, Bangor, at 3.15 p.m. Mr. W. J. Tristram, member of Council, member of the N.P.U. Executive and chairman of the Joint Committee on a National Health Service, on “Current Affairs.”

Thursday, January 31

ASSOCIATION FOR SCIENTIFIC PHOTOGRAPHY, Caxton Hall, Westminster, London, S.W.1, at 6.30 p.m. Mr. H. T. F. Rhodes on “Forensic Photography.”

Friday, February 1

WEMBLEY AND WEST MIDDLESEX BRANCH, PHARMACEUTICAL SOCIETY, Railway Hotel, Wembley, at 7 p.m. Messrs. T. F. West Ph.D., and G. A. Campbell, M.Sc., on “The Story of DDT, 1945.”

Sunday, February 3

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble to Romily, Disley and New Mills. Meet London Road station, 9.20 a.m.

Known to the Public.—In a “Question Time” broadcast from Cork over Radio Eireann recently, one competitor was able promptly to give the meaning of the letters “M.P.S.I.”

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on January 18, president (Mr. James McDowell) in chair. Also present were Messrs. McGregor, James Glendinning, H. F. McCre, S. H. Forrest, H. Nelson, Charles A. McNethy, W. C. Tate, H. H. Cowzer, James Donaghy, J. F. Grimes, J.P., James Irwin, Professor E. B. C. Mayrs, D. L. Kirkpatrick (secretary), and W. Gorman (assistant secretary). THE PRESIDENT welcomed Mr. Nelson (druggists' representative) upon his first appearance at Council meeting.

The minutes of the previous monthly meeting were passed on the motion of MR. FORREST, seconded by MR. ABERNETHY. It was decided, on the motion of MR. DONAGHY, seconded by MR. FORREST, to grant an application by Mr. George Davis formerly of Plymouth and a member of the Pharmaceutical Society of Great Britain) to be placed on the Register.

It was also intimated that a post-graduate course for pharmaceutical chemists would commence in the pharmacy laboratory of the College of Technology, Belfast, on March 6, continuing every Wednesday afternoon from 2.30 to 4.30 until April 10. Applications for tickets should be made early to the College of Technology, as only twenty tickets would be issued for each set of lectures.

Statutory Committee Chairmanship

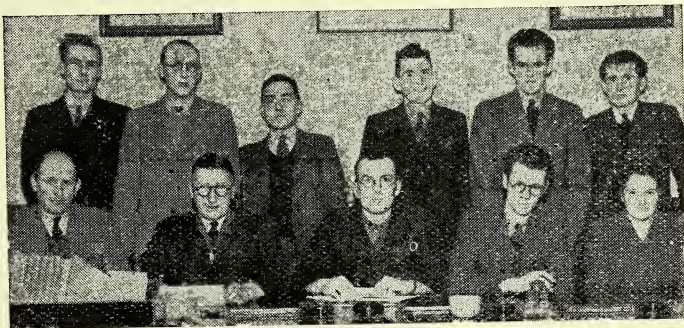
A letter was received from the Ministry of Home Affairs stating that the Minister had accepted nomination of five persons by the Society to act as members of the Statutory Committee under the Medi-

cines, Pharmacy and Poisons Act (Northern Ireland), 1945. The Ministry asked, before proceeding to the appointment of a chairman of the Statutory Committee, what fee the Council would be prepared to pay the person appointed. THE SECRETARY said that in Great Britain the chairman was paid £300

a year, but the duties would be much less onerous in Northern Ireland; under the Bill the Society was obliged to pay for the services of the legal man who would receive the appointment. MR. FORREST asked whether the Society could recover fines, but it was pointed out that the Committee would only be concerned with the question of removal of registration. The Society must defray all expenses. It was decided to fix the fee at £10 10s. per annum.

MESSRS. J. N. PATTERSON (pharmacy inspector) and R. G. ROWLANDSON (Ministry of Home Affairs) appeared before the Council to explain the Ministry's views on a proposal that the new draft Regulations under the Act should be amended to permit the sale of 3 per cent. carbolic disinfectants by persons other than authorised sellers of poisons. After discussion it was decided to adjourn consideration of the matter, and of the draft of the education regulations.

It was decided to approve a proposal from the Ministry to make provision in the Regulations for registered bee-keepers to be supplied, on production of a certificate from the Ministry of Agriculture, with sulphonamides for treating foul brood disease. Approval was also given to a letter from the Ministry setting out the intention to control sales of strychnine in the same manner as in Great Britain, with a proviso added that it might be sold for destroying foxes on production of a certificate signed by a sergeant of police. THE SECRETARY said strychnine could not be sold for the destruction of rats.



EIRE STUDENTS' REPRESENTATIVE COUNCIL.—Group taken at 1946 inaugural meeting on January 8. Seated, Mr. J. Gleeson, M.C.P.S.I., Mr. J. K. Whelehan (president, Pharmaceutical Society of Ireland), and Mr. Seamus Fox (chairman, students' representative body), who presided.

SURFACE ACTIVITY

Abstract of an Address given recently before the Bristol Branch of the Pharmaceutical Society by Mr. W. Cooper, Ph.C. Part I appeared in the C. & D., January 19, p. 86

Formulas (Part II of Paper)

It seems clear that surface-active agents of many types are already much used in preparing cosmetic creams and lotions. As a result, products are being used for toilet purposes that are superior to any of the official ointment bases available for dermatological preparations. Papers published in the "British Journal of Dermatology and Syphilis," and in the "Archives of Dermatology and Syphilology" (American Medical Association) indicate that efforts are being made to adapt the excellent products of the cosmetic industry to the requirements of dermatologists. In particular, emulsions of the o/w type, which can be removed completely by means of cold or tepid water only, are likely to be increasingly demanded in the future. Discussion of possible formulas should be useful, even though some of the materials are not yet easily obtained in this country. The dioctyl ester of sodium sulposuccinate is supplied under the name of Aerosol, O.T. In appearance it is crystalline and translucent, soft and waxy to the touch. It is stated to be easily manufactured from either maleic or fumaric acids so that it should be possible to manufacture it in this country and state its physical constants and chemical properties. Being the salt of a strong acid, it is not easily hydrolysed. Preparations made with it tolerate autoclaving without appreciable change of pH. The following two formulas are suggested as being likely to prove suitable as bases for penicillin creams:—

Aerosol, O.T.	..	..	0.50
Castor oil	..	..	25.00
White wax	..	..	2.00
Wool fat	..	..	1.80
Glycerin	..	..	5.00
Cetyl alcohol	..	..	10.00
Phenoxetol	..	..	1.00
Solution of potash, B.P.	..	..	0.85 mil
Water to	..	..	100.00

Aerosol, O.T.	..	..	1.00
Water	..	..	36.00
Potassium dihydrogen phosphate	..	..	0.68
Caustic soda	..	..	0.12
Glycerin	..	..	6.00
Liquid paraffin	..	..	35.00
Paraffin wax	..	..	6.00
Phenoxetol	..	..	1.00
Spermaceti	..	..	15.00

The first formula gives a soft, almost pourable cream of pale colour and pH 6.9, which remains unaltered after autoclaving.

The second formula produces a white product perhaps a little too firm, though softening easily on warming slightly pH 6.9; stable on autoclaving. Attempts to make a cream consisting of paraffins, wax and Aerosol, which would reform on shaking after the autoclaving, have so far succeeded. Duemling ("Archives of Dermatology and Syphilology") has suggested formulas for dermatological lotions, creams and shampoos based on Aerosol and also on sodium laurylsulphate. The liquid lotion or cream there suggested consisted of:—

Cetyl alcohol	..	..	2
Stearic acid	..	..	2
Liquid paraffin	..	..	10
Aerosol, O.T. (10 per cent. aq.)	..	..	10
Water	..	..	76

In spite of the presence of the cetyl alcohol and stearic acid, the preparation "creams" sufficiently to show a layer aqueous phase at the bottom of the bottle. The following modification is more stable though less liquid after long standing.

Cetyl alcohol	..	..	11
Glyceryl monostearate	..	..	10
Liquid paraffin	..	..	40
Water	..	..	29
Aerosol, O.T. (10 per cent.)	..	..	10

Duemling gives the following as a typical formula for a cream:—

White wax	..	..	11
Paraffin	..	..	10
Liquid paraffin	..	..	40
Water	..	..	29
Aerosol, O.T. (10 per cent. aq.)	..	..	10

The formula produces an excellent product of the vanishing-cream type, easily miscible with moderate quantities of powder, as well as liquid dermatological agents. Shampoos recommended are:—

Aerosol, O.T. (dry)	..	..	16.00
Cetyl alcohol	..	..	5.00
Liquid paraffin	..	..	5.00
Lecithin	..	..	0.75
Alcohol (15 per cent.)	..	..	20.00
Water	..	..	53.25

The Aerosol, cetyl alcohol, lecithin and ethyl alcohol are mixed together and allowed to stand for twelve hours. The mixture is then heated until clear. The liquid paraffin is added slowly while the mixture is being stirred, and the distilled water added gradually. The product is said to be entirely clear and fluid, and the warning is given that the formula must be

ily adhered to or the product will not be r. Up to the moment the writer has succeeded in getting a clear preparation, even in its translucent state the product xcellent. It is intended for normal hair. dry hair and scalp the following is ommended:—

Aerosol, O.T. (dry)	..	..	10
Olive oil	..	..	90

The Aerosol is dissolved in the oil by ating on a water bath. The clear product tained has the appearance of the original ve oil, and, when used, gives a dense and ble lather. For excessively oily hair and nditions of the scalp Duemling recom- ends the following:—

Aerosol, O.T. (dry, 100 per cent.)	10
Alcohol (15 per cent.)	 20
Distilled water	 70

Heat is required to assist solution. The riter has found the following cream valu- le, both as a basis for dermatological ntments and also as a vanishing cream. is stable to acids, alkalis and electrolytes nd, when used alone, leaves no greasy m on the skin:—

Aerosol, O.T.	..	..	0.5
Castor oil	..	..	25.0
White wax	..	..	2.0
Wool fat	..	..	1.8
Cetyl alcohol	..	..	10.0
Water	..	..	47.7

Duemling also recommends the following ermatological creams:—

Spermaceti	..	..	20.0
Paraffin	..	..	10.0
Liquid paraffin	..	..	15.0
Cetyl alcohol	..	..	1.5
Duponol M.E. (dry)	..	..	1.0
Water	..	..	52.5

A Dermatological Emollient

The formula gives a very satisfactory product. Duponol M.E. is a registered trade mark and implies technical sodium laurylsulphate. 2 gm. sodium lauryl- sulphate (paste form) may be substituted. J. Soulsby ("British Journal of Dermatology and Syphilis") has published some excellent formulas, notably one for a dermatological emollient cream, as follows:—

Soln. methyl cellulose (5 per cent.)	25.0
Glycerin	 15.0
Olive oil	 4.0
Stearyl alcohol	 2.5
Simple tincture of benzoin	.. 2.0
Water to	 100.0

When homogenised, this gives a non- separating product with unusually emollient properties. The following is given to repre- sent Halden's Emulsifying Base:—

Liquid paraffin	..	..	50
White soft paraffin	..	..	20
Lanette wax	..	..	30

A formula for Ethisan is given as:—

Liquid paraffin	..	..	10
White soft paraffin	..	..	40
Stearyl alcohol	..	..	5
Liquid sulphonated lorol	..	..	10
Sulphonated Ocenol	..	..	15
Lanette wax	..	..	20

The writer had to substitute cetyl alcohol for the stearyl and sulphonated lorol paste for the 'sulphonated Ocenol, owing to lack of supplies of the recommended articles. Nevertheless, both the latter formulas could be titrated to pH 3 with citric acid solution and to pH 9 with N/1 caustic soda without the first-formed emulsions breaking. They were both stable to electrolytes, mixing freely with 1/10 calcium chloride solution. Bamber (same source) has also published some useful formulas, a particularly elegant example being:—

Lanette wax	..	..	10
Avocado pear oil	..	..	10
Turkey red oil	..	..	10
Hydrous wool fat	..	..	10
Distilled water	..	..	30
Benzoinated lard	..	..	30

Glyceryl Monostearate

Glyceryl monostearate with a trace of soap, or given a trace of caustic soda, promotes excellent o/w emulsions. About 15–20 per cent. of the stearate is necessary, as in the following:—

Glyceryl monostearate	..	..	15.0
Liquid paraffin	..	..	5.0
Glycerin	..	..	5.0
Distilled water	..	..	75.0

This is slightly alkaline (pH about 8). Glycol and propylene glycol laurates can be used in the same way. It should be noted that in all o/w preparations a pre- servative or bacteriostatic is essential, the watery external phase usually containing enough soluble matter to support a growth of mould. Satisfaction has been given by 0.2 per cent. chlorocresol, 1 per cent. phenoxetol, 0.2 per cent. mixed esters (methyl, butyl) of *p* hydroxybenzoic acid or 0.1 per cent. butyl *p* hydroxybenzoate. As the external phase is free to evaporate, such preparations dry up if exposed to the air unless a humectant is included in the formula. The 5 or 6 per cent. of glycerin shown in many formulas serves the purpose, but the monoethyl ether of diethylene glycol (carbitol) is also used. As this does not appear to take up an excess of water in damp weather it may be preferable.



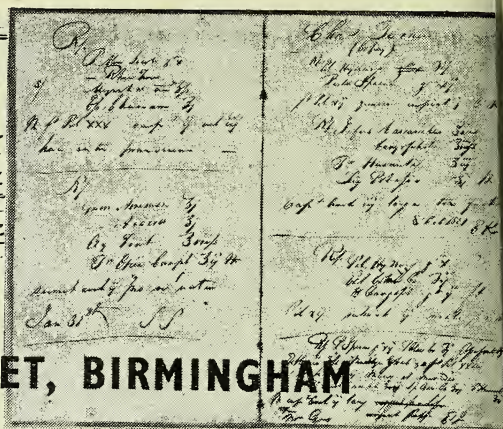
NO 17 BULL STREET, BIRMINGHAM

A Pharmacy

for 125 years . . .

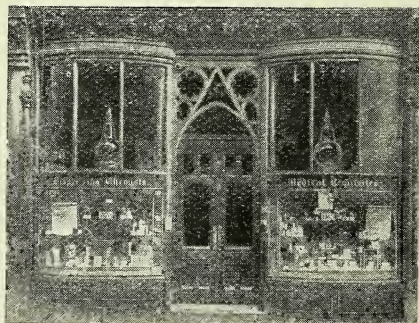
SOME fifty years before the practice of pharmacy came to be regulated by Acts of Parliament, Thomas Southall established his little shop in Bull Street, Birmingham. That enterprising young man cannot have dreamt that he was founding a business destined to become one of the oldest and best known in the entire country, yet such has proved to be the fact. Thomas Southall, who had been established as a retail chemist in Leominster with his brother William, left that town to gain experience with Jacob Bell in London. After being some time there he came to Birmingham to commence business at 17 Bull Street. The establishment of the Southall pharmacy, however, was not without some early difficulties; the first year's trading was unsatisfactory and the young man, discouraged and disappointed, was sorely tempted to retire from the contest. Persistence and integrity, however, soon gained the day and the foundation of the enterprise was secure. Thomas Southall, like so many of the fathers of modern pharmacy, was a member of the Society of Friends.

After the first year the business com-

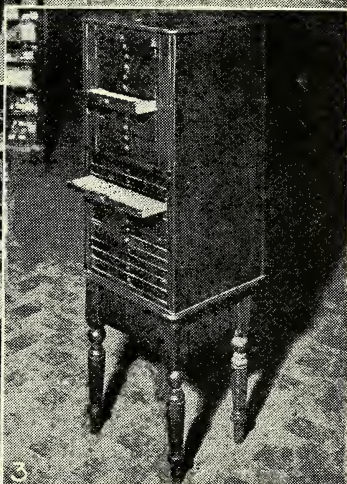
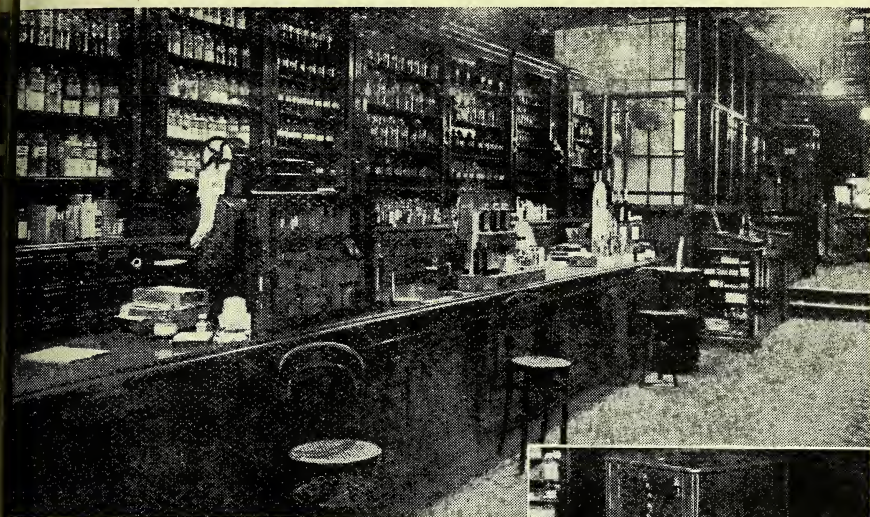


menced to flourish and in a short time Thomas thought he would like his brother William to join him, so the latter sold out at Leominster and came to Birmingham where they carried on business at 17 Bull Street, under the name of Thomas and William Southall. Thomas Southall became well known in the Birmingham area, as, among other things, an analyst of water. One of the waters he examined was that of the public pump by St. Martin's Church Digbeth, and another the well in Allise Street. Soon the name of Southall became increasingly well known and the business continued to flourish. The scope of the business gradually began to be widened by the manufacture of galenical and chemical preparations, and from that manufacturing enterprise developed the firms of Southall Bros. & Barclay (1935), Ltd., and Southalls (Birmingham), Ltd:

• The pharmacy in Bull Street, continued, however, and in 1925 was acquired from Southall Bros. & Barclay, Ltd., by Atkinson & Poole who disposed of it seven years later to Savory & Moore, Ltd., the present owners. The pharmacy still contains many survivals of its early days. A new dispensary was fitted out in 1934, but it is still possible



Above The shop front to-day. In heading The shop front in 1820 and the first prescription book.



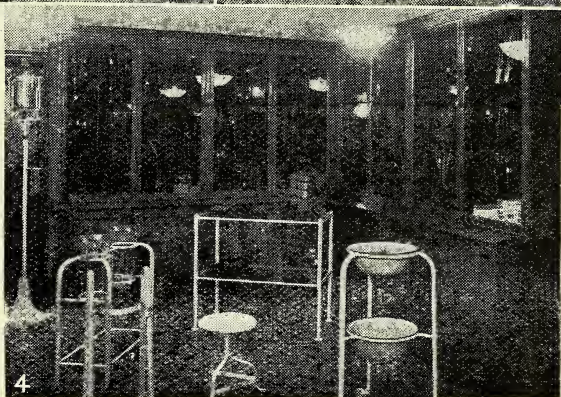
INTERIOR VIEWS OF THE PHARMACY

A general view of the pharmacy.

A department devoted to sundries.

A nest of pill drawers.

A comprehensive stock of instruments
and equipment is maintained.



to examine the original prescription book, with the first prescription ever dispensed by Thomas Southall, dated November 30, 1820. As the illustration at the top of page 112 shows, the writing is bold and clear in Latin more correct than is usually employed nowadays. Prescription books going back many years are still in use in the pharmacy and it is no uncommon experience for customers still to require the dispensing of prescriptions first made up fifty years ago. The fittings of the pharmacy are of mahogany and a large bell-metal mortar (seen in the window on p. 112) attracts much attention when in its usual place at the end of the counter. The left-hand side of the pharmacy stands on the site of the original building.

Large Dispensing Connexion

Although 17 Bull Street is still essentially a high-class pharmacy with a large dispensing connexion, it now has toilet and photographic, invalid food, surgical and acoustic departments. Ample space is

available in the premises for the various departments and the comfort of customers is adequately catered for. The surgical department, under the care of Mr. J. Ross, assisted by Mr. E. Bakewell, is particularly well equipped and stocked with a comprehensive range of surgical requirements. The drug room, under the charge of Miss Wotherspoon and Miss E. Keel, is kept busy filling orders for doctors and hospitals with the usual run of galenicals and specialities. A more recent development was the introduction of an acoustic department, under the charge of Mr. F. C. Horwich, which caters for a large area. The pharmacy is well stocked with the standard drugs, new synthetic products and a full range of proprietary articles. To mark the anniversary of the founding of the business the window display shown in the illustration on p. 112 was designed to illustrate the development of pharmacy over the past 125 years. The pharmacy is under the charge of Mr. D. J. Hughes, M.P.S.

COUNCIL'S VIEW ON ELECTION CANVASSING

THE North Metropolitan Branch of the Pharmaceutical Society was addressed on January 15 by Mr. F. G. WELLS (chairman, Organisation Committee, Pharmaceutical Society's Council), who spoke on "Pharmaceutical Organisation." Mr. Wells gave details of the committee's work. Some members were of the opinion that branch resolutions did not always receive adequate consideration. This, he said, was not so. Resolutions were brought first before the full Council, then referred to Committee and finally brought back to Council. A reply was always sent to the Branch. Membership of the Committee was limited to nine, with two *ex officio*, so that they did not have a majority vote on the Council. Mr. Wells dealt at some length with the proposed by-law on canvassing by Council candidates, which he knew the Branch had viewed with some concern. Legal advice had been taken by the Council, and it was confirmed to be within their power to impose reasonable restrictions. Support of a candidate by a particular branch, and recommendation of that candidate to other branches, either direct or through the pharmaceutical Press, was, in his opinion, permissible provided the approach came from the branch. There was no question of rushing the by-law through as it had to be read three times in Council and finally passed by the Privy

Council. Members could also oppose it at the annual meeting. Mr. Wells gave a review of the present position of the anticipated National Health Service and said the Society hoped to be in a position to elect representatives' meeting on the subject.

Interpretations Demanded

THE CHAIRMAN (Mr. Booth), said the Branch was of opinion that the original suggestions (1944) regarding restriction on candidates' advertising were largely dictated by the shortage of paper, but the majority of inquiries and criticisms raised by the Branch had been allayed by Mr. Wells' frank explanation. MR. SPENCE inquired if it would be in order for a branch to call a meeting to which an open invitation to candidates for election might be made as the Branch considered it desirable to know well in advance of the election what members were thinking of accepting nomination. He did not see why candidate biographies should be restricted to the official journal. He also asked that the post-graduate lectures given at Bloomsbury Square might be published in booklet form. MR. WELLS replied that candidates' statements might be made in the other pharmaceutical Press. MR. STEWART asked that the Council should consider issuing a list of its interpretations of the by-law for the guidance of candidates and Branches.

LIVERPOOL'S FIRST POST-WAR DINNER

AFTER a lapse of seven years, Liverpool Chemists' Association and Branch of the Pharmaceutical Society revived their annual dinner on January 16. Catering difficulties restricted the attendance to 100, but otherwise the function was well up to the pre-war tradition. Alderman W. J. Tristram, (a member of the Pharmaceutical Council and National Pharmaceutical Union Executive) presided, and Mrs. W. E. Shepherd presented bouquets to the Lady Mayoress of Liverpool and to Mesdames C. Young and E. A. Brocklehurst.

Tribute to Drug Wholesalers

Replying to the toast "The City," proposed by Mr. H. HUMPHREYS JONES, LORD MAYOR OF LIVERPOOL (Alderman John Hogan) noted with pleasure that the company included representatives of the Liverpool wholesale and manufacturing houses. These, he said, had played a vital part towards restoration of the country's export trade and in keeping Liverpool where it should be. They had refused to be lured to London and had rendered great service in providing employment in the city.

ALDERMAN W. J. TRISTRAM, J.P., proposed "The Society." He said some branches of the Society had developed an unpleasant habit of storing up their grievances and annoyances and flinging them at the Society's Council member when he visited their meetings. That was not the purpose of that social gathering. The Liverpool Chemists' Association was one of the oldest organisations of its kind in the country, having been a branch of the Society before the Council instituted the branch system; now it was approaching its hundredth birthday. During the war years, pharmacy had a fine record of service. The health of the community had been maintained at a high standard in spite of the deficiency in protein food. Although the Government must take a great deal of credit for that, the health services of the country, and the pharmacists, were entitled to their share of praise. No pharmaceutical department in an institution or health centre could provide the same atmosphere for the close contact customers now enjoyed with pharmacists.

Mr. J. C. Young replied. He referred to Alderman Tristram's able service as chairman of the Joint Committee on a National Pharmaceutical Service. There was a good deal of uneasiness and uncertainty, he

said, amongst pharmacists about what was going to happen in the future. Important tasks lay before them, and co-operation was essential.

Tribute to Trade Press

MR. E. A. BRIGGS, proposing "Our Guests," mentioned Mr. and Mrs. Brocklehurst, Mr. and Mrs. Young, Mr. L. Moreton Parry ("who has done more for Liverpool chemists than any other man") and the trade Press, which, he said, had enabled pharmacists serving overseas to learn something of the progress of pharmacy during the years of their absence.

MR. E. A. BROCKLEHURST (chairman, N.P.U.) replied. During the war years, he said, chemists had never failed to dispense prescriptions or to supply essential commodities to the public. All that pharmacists asked for was fair remuneration and reasonable security.

Arrangements for the dinner were made by a committee of which Mr. W. E. Shepherd was secretary.

MEDICAL ABSTRACTS

Chalk Dust as Cause of Colds.—Poston ("British Medical Journal," January 12, p. 67) suggests that a common and important cause of colds in schoolchildren is chalk dust. The use of chalk on blackboards and its removal with a dry duster results in the students sitting near the board breathing air impregnated with irritating particles of chalk dust. Even teachers are not immune from its effects. In one case a child had only one cold during a prolonged absence from school and this followed the use of crayons and a blackboard at home.

Contagious Impetigo.—A statistical analysis of the results obtained in 1,118 cases of impetigo contagiosa is given by McKenna and Cooper-Willis in the "Lancet" (1945, II, 356). The cases were treated in three different ways, and on the results obtained the authors observe that treatment with 15 per cent. sulphathiazole was significantly better than treatment with lotio cupro-zincica (copper sulphate, gr. 4, zinc sulphate, gr. 6, and camphor water to 1 fl. oz.) except for the risk of sensitisation in some 2½ per cent. of cases. The length of stay in hospital was appreciably shorter under treatment with sulphathiazole than with the copper-zinc lotion. As between ordinary and microcrystalline sulphathiazole, the latter had the advantage.



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CXLV JANUARY 26, 1946 NO. 3442

Mistaken in Policy, Wrong in Ethics and Bad in Law

The tailors of Tooley Street can have been much less numerous than the "majority" mentioned in nineteen replies to a circular sent out, as previously recorded (*C & D*, 1945, p. 619) were quoted by the Council of the Pharmaceutical Society as evidence of support for a proposed by-law. It is becoming increasingly evident that the branches that expressed support had not as little title to be taken as representative of the Society's membership as the tailors to speak for the community.

A letter from the North Metropolitan Branch of the Society, published in this issue, expresses opposition to the proposal in its present form and urges that it should come up for discussion at the next Branch Representatives' meeting. Blacklock earlier objected to the suggestion "in the strongest way," and Nottingham concludes a memorandum on the subject with the unequivocal words at the head of this commentary.

To some of the objections of the proposed by-law, as framed, we have already drawn attention (December 8, 1945, p. 619 and January 19, 1946, p. 81). The words of explanation put forward by the chairman of the Society's Organisation Committee on January 9 may be taken as evidence that the Council is aware it is on unsafe ground. Not surprisingly the Committee is a little sensitive to the criticisms that have been advanced. Rightly so. It is

clearly unsatisfactory that the Council should sit in judgment in its own cause. That there should be safeguards against unfounded charges is essential, and adequate facilities to ventilate the pros and cons of any disqualification should be insisted upon. They should be demanded if only to avoid the harm which, as the Nottingham Branch points out, would result to the prestige of the craft if a disqualified candidate should bring—as he well might—an action for libel against the Council of the Society. The universal objections to "hush-hush" are at the core of the matter. Critical observers of progress in pharmacy see clearly that an apathetic electorate is at once a result of the Council's activities receiving insufficient publicity and an excuse for still further extending the area of obscurity. The price of democracy, like liberty, is eternal vigilance, and, to be in tune with the times, the Society must go forward to a larger measure of democracy and not relapse into conditions which, as history shows, result in oligarchies and are favourable to dictatorships.

Operation Mulberry-bush

THE cold and frosty mornings have been with us. Dispensing figures have been well up, and the strain upon many pharmacists has been severe. At the same time there has been no officially-proclaimed epidemic and in consequence no call to set in motion the scheme for utilising Royal Army Medical Corps dispensers in the civilian health services.

Perhaps this is just as well. Writing on the subject of Army assistance in attempting to overcome some of the difficulties of London's gas industry, an investigator ("New Statesman") states:—

There has been some criticism of the gas companies for failing to anticipate this winter's crisis by employing more soldiers at an earlier date. They claim, however, that in spite of repeated requests, insufficient military labour has been drafted into industry to meet the emergency before it was upon them. It may be, perhaps, that they did not press this demand with sufficient vigour, or that the Ministry of Labour did not act quickly enough. I cannot try to fix the responsibility; but it is clear that there were not enough soldiers at the right time and that sometimes men were posted away soon

after they had learnt the job. . . . Even after they have learnt the job, troops are hardly an efficient labour force. On one operation, normally done by sixteen men, eight experienced men and twenty soldiers have to be used. And there is little reason for the soldiers to be enthusiastic about the job they are doing . . . working alongside skilled men and pieceworkers, they receive their normal Army pay.

Of the arrangements for calling in military aid in the gas industry we have no knowledge. As the industry is one of relatively few large units it may be supposed that they are simple and straightforward, and not comparable to those with which pharmacy is faced. In these, it will be recalled, after the Ministry of Health has indicated that a period of epidemic exists, (1) a joint meeting is called locally—on the initiative of the medical officer of health—of the secretary of the district pharmaceutical war committee, medical officer of health, and military Assistant Director of Medical Services for the area; (2) a pharmacist needing assistance indicates to the secretary (or other appointee) of the pharmaceutical war committee the nature and extent of his needs; (3) the secretary (or appointee) satisfies himself that the pharmacist's requirements are legitimate; and (4) passes the demand to the medical officer of health, who in turn (5) approves it and (6) passes it to the A.D.M.S. From him (7 *et seq.*) orders pass downwards by the usual Army channels to the individual who is to render the assistance. Even were he at once to cease whatever he was doing, and proceed by the fastest route to his civilian rendezvous, the inevitable delay might well deter the hard-pressed pharmacist from applying for help, or prevent its reaching him before the crisis had passed.

In addition, since the pharmacist has to provide free board and lodging for his temporary assistant and pay the Army authorities at the rate of £4 7s. 6d. weekly (of which the man himself receives only his normal £3 4s. 9d.) and to sacrifice some of his own time to provide a certain amount of tuition, the benefits to both parties have to be weighed against attendant disadvantages. Even when he has picked up the threads the military dispenser may suffer the fate of some of the military helpers in the gas

industry and be re-posted. The gain to the public from the arrangements would be more real if the machinery were geared to a more modern tempo. In fact, only the Royal Army Medical Corps derives an undeniable benefit: a slight financial profit on each assistant supplied. It may be hoped that such an "operation mulberry bush" as has been planned may yet be avoided.

Antibiotics

SINCE Pasteur's time it has been known that some micro-organisms, later called "antagonists," could inhibit and destroy the disease-producing agents. This inhibition of the growth or metabolic activity of pathogenic bacteria and other micro-organisms is brought about by the antagonist causing unfavourable environmental changes (such as depletion of nutrients, alteration of the hydrogen ion concentration, oxygen deficiency, etc.) or by forming a definite chemical substance, called an antibiotic (*anti*, against; *bios*, life). The complex substances are formed not only by micro-organisms, but also by algae, lichens and many flowering plants. From the fungi are formed the well-known antibiotics, penicillin, clavacin and gliotoxin, and from the bacteria, gramicidin and tyrocidin. Since the successful introduction and use of penicillin much work has been, and is being, done in the search for new agents. In the actinomycetes, which are found abundantly in soils and dusts, some of the constituents have been already studied in detail, amongst which are the antibiotics, micromonosporin, proactinomycin, actinomycetin, actinomycin A and B, streptothricin and streptomycin. Further purification of these may eliminate undesirable side effects which may be due to impurities. Crystalline products have been obtained by some workers. The selection of a suitable antibiotic is largely governed by its toxicity to animals, its activity in the animal body, and by its influence upon particular disease-producing bacteria, i.e. by its specific bacteriostatic spectrum. When the substance has been prepared in a pure crystalline condition, measurements of doses are more easily made and finally a synthesis of the antibiotic may result.

NOTTINGHAM CONDEMNNS PROPOSED BY-LAW

MEMORANDUM on the Pharmaceutical Council's proposed new by-law restricting canvassing by candidates for election to Council.

Council has been sent to the president and Council members by the Nottingham Branch of the Society.

Council's View Not Accepted

The memorandum is in the following terms:—

1. We do not accept the Council's view that canvassing by candidates for Council is not in keeping with the character of the Society and the tradition of bodies of a similar kind. We must remind the Council, with great reluctance, that thirteen of the present members of Council were early in the field at the last two elections in the use of the very methods they now condemn.

2. In regard to the traditions of other bodies of a similar kind, it is questionable whether there are any other bodies of a similar kind in existence. In any case we repudiate the suggestion that we should be governed by the traditions of other bodies, which are matters with which we have no concern.

3. We feel strongly that every candidate has a democratic right to state his case before the electors as he wishes, so long as he observes the ordinary rules of decency and fair play.

4. A by-law of this character should only be imposed when it has been approved by a substantial majority at a Branch Representatives' meeting, after full, free, and unfettered discussion. It is a serious departure from pharmacists' own century-old tradition.

5. The present deplorable lack of interest in their own affairs shown by the great majority of pharmacists would be aggravated by the proposals, which are designed to prevent free discussion at election times.

Employee Candidates at Disadvantage

6. Financial considerations are obviously involved when Council members tour the country at members' expense, persuading Branch meetings to support their policy—the most effective form of publicity—further enhanced by the Press reports which follow. The employee candidate and new candidates in general, are at a disadvantage here. A ban on publicity would deprive them of their only available means of expounding their policies.

7. We welcome the proposal to enclose with the voting paper short biographical notes on each candidate. This, in our

opinion, is the only sound feature in the proposals. If this is adopted, however, there will be less justification than ever for printing asterisks as "decoy ducks" against the names of retiring Council members, as this information will be duplicated in the notes.

8. The by-law itself is open to grave criticism in that

(a) It gives the Council power to disqualify new candidates, and thus to preserve their seats on the Council against the vote of the electorate.

(b) There are no safeguards against an unfounded charge of canvassing or requesting to canvass.

(c) The Council has no standing as a tribunal, nor is the "defendant" provided with an opportunity to know and refute the grounds on which he is charged.

(d) No provision is made for the pharmaceutical Press to be present to report the proceedings to the members.

(e) If the decision to disqualify may be made by a "satisfied majority," it is clear that the decision need not be based on unequivocal and incontrovertible fact, but may be made on considerations that can only be the subject of conjecture.

(f) A subsequent action for libel against the Society by an aggrieved candidate would be reported in the daily Press and, whatever the outcome, this would have a damaging effect on the prestige of the Council and the Society.

For these reasons, we submit that the Council's proposal is mistaken in policy, wrong in ethics, and bad in law.

Reports on German Chemical Works.—

Three of the series of reports on German chemical works have now been published by H.M. Stationery Office. They are "Investigations" by Professor Richard Kuhn (price sixpence), "Pharmaceutical Targets in Southern Germany" (price 1s. 6d.) and "Insect Repellents, Rodenticides and Fungicides" (price 4s.). With the publication of these reports, the system previously in operation—whereby reports were issued to the chemical industry in this country through the Association of British Chemical Manufacturers—has come to an end, and no further appointments to view the reports at the headquarters of the Association are being booked after January 31. The service provided by the Association was utilised by many non-members since it was made available.

M.O.H. BULLETIN TO PHARMACISTS

THE following abstracts are taken from the ninth Ministry of Health Bulletin to Pharmacists, issued by arrangement with the Pharmaceutical Society:—

Dust in the Home and Factory

THE dust problem in the home is reasonably well known. Less is generally known of dust problems in factories. Dust counts made by author in 1937 in a field in the centre of the Potteries, Stoke-on-Trent, showed a concentration of 27,000 particles per cu.cm. of air on a January afternoon. The corresponding figure in the middle of the local holiday week was only 760. None of the normal forms of dust encountered in the home is in itself particularly harmful, but associated with and carried by dust particles are often to be found germs, living in a dry state, which, if inhaled and permitted to multiply sufficiently in the warm moist passages of the nose and throat, or allowed to enter skin lesions, may give rise to dangerous infections.

Health Hazards from Industrial Dusts

In factories the dust problems are frequently more complex. Factories need regular cleaning in the same way as homes and the Factories Act requires every factory to be kept in a clean state, accumulations of dust to be removed daily from floors, workbenches, staircases and passages, and floors to be cleaned at least once a week by washing or other suitable and effective method. Special precautions must be taken where dust clouds are created which might expose workers to health risks or risks to life and limb through the fire and explosion hazards associated with certain types of dust. The factory operations giving rise to dust are legion, the chief being those of crushing, disintegrating, grinding, mixing, sieving, etc., and almost any operation involving material which is itself a dust or which contains a proportion of dust. • Many factory processes, of course, are directed to the production of fine dusts and powders as the desired product.

The health risks from industrial dusts arise from the damage they can cause to the respiratory system, from their action in certain cases as systemic poisons or skin irritants or, in the special case of radioactive dusts, from their destructive action on the body tissues both internally and externally. Thus the inhalation of dusts containing free

silica or asbestos in sufficient amount over a period of years, can cause incurable lung diseases of silicosis and asbestosis respectively. Silicosis is currently believed to be due to a proportion of the lung phagocytes or dust-carrying cells being killed by the solution of silica in the lung fluids with a consequent tendency to the blockage of the lung drainage channels and deposition of silica particles in the lung, leading, by the same toxic solution effect to the irreversible formation locally of useless scar tissue, with the result that blood aeration diminishes and a progressively increasing strain is thrown on the heart. The inhalation of some mineral dusts such as limestone, glass, cement, may affect the respiratory passages and give rise to pneumoconioses such as are typified by asthma, bronchitis or catarrh. Again the breathing of certain metallic oxide fumes such as zinc oxide, magnesium oxide, copper oxide and manganese dioxide can occasion metal fume fevers, while the inhalation or ingestion of toxic dusts such as lead, arsenic, cadmium or manganese and their compounds leads to poisoning. Dust produced when certain kinds of infected raw wool, hair, and hides are handled may carry spores which, by contact with the skin or by inhalation, may cause the virulent disease of anthrax to develop. An almost unlimited number of dusts appear to be capable of causing dermatitis.

The extent to which dusts can affect health is dependent on concentration, size distribution, mineralogical nature and chemical composition of air-borne dust clouds. It is now well established that the vast majority of particles found in the lungs are under 5 microns in diameter (1 micron = 0.001 mm.), and information is gradually accumulating on the toxic concentration limits of the various harmful dusts. The typical industrial dust cloud has a median size of around 1 micron, with only a small percentage, measured by number of particles present, over 5 microns. Particles over 5 microns, if present and breathed, are mostly caught in the upper respiratory passages and if in excessive amount do damage there.

Protection against Industrial Dust

In the normal individual the nose, throat and lungs are capable of dealing through the agency of the nasal vibrissæ, the mucus, the cilia and the phagocytic cells with a

erate amount of dust and disposing safely—hence the great importance of the breathing in dusty atmospheres. The most and most effective way adopted, and in fact required by Section 47 of the Factories Act, to prevent there being any serious or substantial quantity of dust inhaled, is to enclose the dust-producing process completely in a fume cupboard under suction, or in a suitable exhaust fan.

Other dust suppression methods applicable in particular cases include wet methods of working and damping of dusty materials, and the substitution of enclosed mechanical methods for dusty manual work. In a number of important cases safe material may be substituted for dangerous, dusty material, and alumina for powdered flint in the process of bedding china for its first firing. Dusty processes should, as far as possible, be separated from other factory processes so as to limit the number of workers exposed to risk. Provision of wet floors and the systematic cleaning of plant and workrooms, particularly by vacuum methods, is valuable. Stocks of dusty raw or finished materials not in immediate use should be stored in enclosed containers outside workrooms. If all else fails, a respirator of good design will, if conscientiously worn, save workers from the effects of dust inhalation. For dusty processes associated with a dermatitis risk, provision of ample washing facilities is of major importance, though the use of suitable barrier creams by workers is also of value.

It is not generally realised that such common carbonaceous or metallic substances as sugar, dextrin, cork, sulphur, food flour, various resins and dyes and plastics, malt, magnesium and aluminium are highly explosive in the form of dust-clouds in air when present within certain concentration limits and if raised locally above their appropriate ignition temperatures, due to the ease with which they react, exothermically, with the oxygen of the air. Safety measures against dust-clouds and explosions therefore aim at keeping dust concentrations below the flammable limits, avoiding sources of ignition, working the process in an inert atmosphere where possible, providing chokes to prevent transmission of explosion from one part of the plant to another, excluding workers from rooms containing running dangerous plant, and arranging its construction and siting and pressure reliefs so that if, despite the precautions, an

explosion does occur, it will vent itself to a safe place. Dust accumulations outside the plant must be avoided.

Shingles

SHINGLES is an affection characterised by pain and the appearance of groups of vesicles on an inflamed skin along the course of a nerve. Most commonly the intercostal nerves running round the trunk, between the ribs, are affected. The eruption starts in the mid-line at the back, over the spinal column and creeps round one side of the trunk to the mid-line in front. Shingles is the result of infection in the posterior root ganglion of a nerve by an ultramicroscopic virus which runs along the nerve causing neuritis and is present in the vesicles which erupt on the skin. Not only intercostal nerves are liable to this infection, it may attack the ganglia and nerve supplying any region of the skin surface.

Associated Pain

While it is exceptional for shingles to occur at the same level on both sides of the body (producing a complete girdle lesion) this has been described and it is not so rare for more than one zone, at different levels, to be affected. Odd vesicles may occur anywhere on the body outside the particular segment and occasionally shingles and chicken pox—each of classical pattern—occur together in the same patient. The other feature which should lead to the suspicion of a diagnosis of shingles is pain, since this is an unusual accompaniment of skin affections. It is a very variable factor in the disease. It may be very acute and severe and it is quite usual for the pain to precede the skin eruption by a few hours or even a few days. Should the distribution of the pain be over the ear or eye or appendix regions it may give rise to the suspicion of a surgical emergency. As a general rule pain is slight in the young and soon passes, whereas in the elderly it may be severe and persistent. Post-herpetic neuralgia—pain following shingles—in the elderly may be extremely serious and very intractable to treatment, causing sleeplessness and exhaustion which may lead to death. Scarring of the skin following shingles resembles that caused by chicken pox but may be more severe. One other rare complication associated with herpes zoster is paralysis of the nerve.

The virus which causes shingles is generally accepted as being identical with

that responsible for chicken pox. Most experienced practitioners are familiar with instances of the one disease giving rise to the other or to epidemics. The antibodies produced in the blood stream appear to be identical. Reinfection of those previously exposed—and therefore carrying some immunity—may result in a nervous rather than a skin lesion.

Treatment

Shingles runs a self-limited course of ten to twenty-one days and does not call for much active treatment and is not much influenced by treatment. In simple cases and in the young the pain is relieved by simple analgesics, and local treatment should merely aim at the prevention of secondary infection. The use of a dusting powder or an aniline dye or painting with wool and collodion is commonly practised. The problem of pain in the elderly demands more serious consideration and here the prevention rather than the treatment of the post-herpetic neuralgia is to be aimed at. Once established, post-herpetic neuralgia is rarely amenable to drugs, even opiates. In the established state vitamin B is given and infra-red-ray therapy and deep x-ray therapy do upon occasion give some relief. Prevention of post-herpetic neuralgia is helped by complete rest and by the administration of 0.5 mils of posterior pituitary extract subcutaneously daily for twenty-one days from the onset of the affection.

Abrasions and Minor Injuries

ALTHOUGH the majority of minor injuries of the skin heal kindly, appropriate early treatment does much to reduce the incidence of serious sequelæ. These can and do occur, and it is not unknown that a limb or even life itself may be lost when the original lesion was no more than a scratch. It is a good rule that no break in the continuity of the skin is too trivial to treat. All injuries which break the protecting epithelium afford an entry for bacteria which first contaminate the wound and later multiply and invade the tissues. The aim of treatment is, therefore, to cleanse the wound before infection develops and to aid the natural processes of repair.

Cleansing the wound is best carried out by bathing with a germicidal solution which ideally will destroy bacteria without injuring the body cells. The halogenated coal tar antiseptics (e.g., liquor chloroxylenolis) are useful for this purpose. Eusol and similar preparations are also good, being bland and efficiently germicidal. Proflavine

(1:1000 in saline) may be used. Boric acid on the other hand, has only a feeble disinfectant action, and while iodine is used on intact skin it may be unreliable as a wound antiseptic, especially in the presence of blood. Alcohol is irritant and its effects are decreased if the skin is greasy. The natural processes of repair are helped by the protection and rest provided by a suitable dressing (e.g., sterile dry lint) which should be left alone for four or five days unless local pain demands inspection of the wound. The presence of any of the classic signs of inflammation: redness, heat, swelling, pain (*rubor, calor, tumor, dolor*) demand the immediate reference of the patient to a doctor.

Small "clean cut" wounds should be cleansed and protected by a dry sterile dressing. Any foreign body such as a fragment of glass should be removed if it is easily accessible. The capillary bleeding can be controlled by pressure; hæmostatic should not be used. Incised wounds should be referred to a doctor in any of the following circumstances:—

- (a) If the bleeding does not cease after applying pressure for a few minutes
- (b) if they gape;
- (c) if there is any question of a retained foreign body;
- (d) if they are situated in the face where minimal scarring is desirable.

Patients suffering from punctured and lacerated wounds should *always* be sent to a doctor.

Burns and scalds causing redness and blistering of small extent are best dealt with by a firm dressing of soft paraffin gauze or sulphonamide cream after pricking the blisters with a sterile needle and allowing the exudate to escape. Smaller ones which do not call for a dressing may suitably be dabbed with picric acid solution.

The most convenient dressing for boils consists of two superimposed circular pieces of elastic plaster, the inner one having a small hole cut in it through which the apex of the boil protrudes. In no circumstances should boils—or, for that matter, any septic wound—be squeezed in an endeavour to express pus.

Bad Effects of Noise

In the mechanical age in which we are living noise is one of the features of uncontrolled development of the machines which are employed for industrial and war operations. The behaviour of the organ of hearing is extremely complicated, and we have no evidence that it is adapting itself.

part from its nuisance value, noise is unduly loud, unexpected, prolonged and sudden, has very definite detrimental effects on the human being. By inducing fatigue it affects efficiency and performance. More important, however, is the damage, irreparable, which it causes to hearing. Deafness is most marked immediately following excessive stimulation or exposure and is followed by variable periods of recovery. The insidious nature of the effect of the permanent impairment of hearing is such that those employed in these conditions are often unaware of any hearing defect. Errors in hearing what is said pass unnoticed or are attributed to inefficiency on the part of the speaker.

As with all the hazards in life, ears are equally affected by the same traumatic cause and there appears to be an individual susceptibility to the effects of noise. Loud and explosive sounds in an enclosed chamber have a greater traumatic effect than a similar noise in the open. It is important to determine the effects of acoustic trauma and its actual relationship to deafness. This can only be derived from specific studies and it necessitates that the hearing of employees should be tested before they are employed, and at intervals during their employment. Care must be taken to eliminate factors other than those purely occupational which may have an adverse influence on hearing. Factors which influence the degree of hearing loss caused by exposure to noise are:—

- (1) The intensity of the noise.
- (2) The length of exposure at each period.
- (3) The total time of exposure.
- (4) The character of the sound stimulus, whether continuous or interrupted.
- (5) The surroundings, whether in enclosed or open spaces. A source of noise in an enclosed space produces a higher intensity of noise than a similar source in the open. A smooth concrete wall, for example, will reflect 96 per cent. of the acoustic energy striking it.
- (6) Previous aural disease. Previously affected ears are more susceptible to acoustic trauma than normal ears.

Those employed in duties entailing exposure to loud noise should be educated in the necessity of protecting their ears. This protection can be achieved by some form of ear plug which fits comfortably, and occludes hermetically, if possible, the lumen of the external auditory meatus. If some form of external ear pad is used it should be constructed of some material of sufficient density to give adequate sound attenuation.

What is the N.A.P.T.?

THE anti-tuberculosis movement in Great Britain began forty-five years ago. It might be said to have begun with the foundation of the National Association for the Prevention of Tuberculosis by the Prince of Wales, afterwards King Edward VII. N.A.P.T., after nearly half a century, plays a big part in the campaign against this formidable disease. In 1899 there were no tuberculosis clinics, dispensaries or hospitals, and the idea of open-air treatment was strange. To-day open-air is taken for granted. There are more than 400 tuberculosis dispensaries in England alone, and some 20,000 hospital and sanatorium beds. All the institutions and clinics which the N.A.P.T. founded in those early days have now passed into other hands. Yet the Association itself continues to flourish. There is still a vast scope in tuberculosis work for research, education and propaganda, and to-day these form the work of the N.A.P.T.

Meeting the Social Problem

Tuberculosis is a clinical disease with a social problem attached. Indeed some would put it the other way round, and would claim that social conditions—overcrowding, malnutrition and long hours, are the primary causes, and that the germ, the *Bacillus tuberculosis*, is only a contributory factor. Our aim is to teach the average person something about his health, not to make him morbidly conscious of illness, but to prepare his mind and lead him to a reasonable attitude founded upon sound information. To answer certain frequently-asked questions sixteen different leaflets have been prepared upon different sides of the problem of tuberculosis. In former days, health leaflets were usually written by specialists in language which could only be understood by specialists. The N.A.P.T. has taken care in conveying all its information in language which people can understand. Cinema films have also been produced, and many hundreds of film demonstrations are given each year. Lectures and conferences are arranged, and special courses given for doctors, health visitors and laymen interested in the problem. The N.A.P.T. Social Welfare Department is run by members of the staff who have themselves been sanatorium patients. A recent development, art therapy. The art therapy scheme aims at training patients along skilled paths, so that they may learn a useful occupation.

OVERSEAS TRADE NEWS

Indian Drugs Imports.—Imports of drugs and chemicals into India during 1944-45 were valued at 101,415,942 rupees, compared with 68,568,541 rupees during the period 1943-44.

Swedish Import Restrictions Eased.—A list of goods no longer requiring an import licence from the Swedish State Trade Commission includes a range of fine chemicals, photographic paper and films.

U.S. Gum Turpentine Prices.—Effective from January 15, the U.S. Office of Price Administration has established maximum prices for gum turpentine at all levels of production and distribution. Producers' maximum prices are fixed at 83.5 cents per gallon f.o.b., still or bulk storage plant.

French Black Market in Penicillin.—The French police are reported to have started an all-out drive in a bid to defeat black-market trading in penicillin. Fantastic charges are being made for the drug. Two well-known wine merchants, arrested in Lyons, are alleged to have had seventy-one bottles of penicillin in their possession.

U.S. Penicillin Plant Purchased.—A message from New York states that the U.S. Government-constructed penicillin plant at Syracuse has been purchased by the Bristol Laboratories, Inc., from the Reconstruction Finance Corporation at a cost of \$1,100,000. Additional property for the expansion of the plant has also been acquired.

I.G. Farbenindustrie Shares.—The Munich Stock Exchange has decided to remove I.G. Farbenindustrie shares from their list until a final decision on the fate of this firm has been reached. The United States Military Government in Germany announced on January 17 that the liquidation of I.G. Farbenindustrie in the U.S. zone is nearing completion.

Penicillin Data for Germany.—The British News Service in Germany, quoted by Reuter, announces that Great Britain is releasing for Germany certain data relating to the production of penicillin. Assistance for setting up laboratory facilities and equipment for the manufacture of penicillin is being given to the German pharmaceutical concern of Schering-Kahlbaum, A.G.

Spanish-Danish Commercial Agreement.—Details of the Spanish-Danish agreement signed on January 12 have been released. The agreement represents a renewal of a treaty which had not been renewed since

1943. Spanish exports valued at 13,500 Danish crowns principally comprise oranges, lemons and other fruits and their products, wine, cork and minerals. Danish exports to Spain include machinery and pharmaceutical products.

Natural Rubber Price Suggestion.—A maximum price of 18½ cents per lb. of natural rubber while Far-East plantations are re-establishing themselves has been recommended by Mr. J. L. Collyer, president of the B. F. Goodrich Co., U.S.A. He suggested that a maximum of 12 cents per lb. should be paid for supplies from the Far-East as soon as they become available, a price which he stated would assure efficient rubber growers a reasonable advantage in the face of competition with low-cost synthetic rubber, as well as a reasonable return on their plantation investments.

Vitamin D Becomes "Public Property."—A Reuter message from Chicago states that the Wisconsin Alumni Foundation and seventeen other organisations have been enjoined from instituting suits for infringement or to collect royalties upon patents dedicated to the public in the manufacture of vitamin D, by a decree recently signed. The case originally arose when the Alumni Foundation charged a vitamin manufacturer with the infringement of its patent rights and the Government intervened claiming that the organisation had violated the Sherman Anti-trust Act. It was stated that persons who most need vitamin D were unable to get it because of prohibitive costs. The president of the Alumni Foundation has stated that the organisation "welcomed the opportunity to have the charges of anti-trust law violations thoroughly investigated. The foundation not only did not oppose Government intervention in its patent infringement suit but aided in becoming a party." He did not foresee any appreciable price reduction in vitamin D or its products as a result of the decree. Other organisations charged in the suit included E. I. du Pont de Nemours & Co., Quaker Oats, Standard Brands, Inc., Gelatine Products Corporation, Borden Co., Carnation Co., Pot Milk Co., Indiana Condensed Milk Co., Nestles Milk Products Inc., Vitamins, Inc., Abbott Laboratories, Mead Johnson & Co., William S. Norrell Co., Parke Davis & Co., E. R. Squibb & Sons, Winthrop Chemical Co., Inc., and Charles Bowman.

TRADE REPORT

ot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include exceptional marine risk insurance and other abnormal charges payable under present conditions.

28 Essex Street, W.C.2, January 23

The London drug and chemical markets have remained moderately active during the past week, with a good deal of inquiry for export and a routine business for the home trade. Prices show rather more variation than usual but the changes are mostly of a minor character and do not indicate any general trend. The week has seen few changes in PHARMACEUTICAL CHEMICALS, this section of the markets being quite steady. Reports from makers indicate good inquiry for both export and home trades. The only price alteration of importance concerns ETHERS which have been advanced by 1½d. per lb., including contracts, but the anæsthetic grades are not affected.

Although business in CRUDE DRUGS shows small actual improvement over the recent average, there seems to be rather more interest in the markets; a fair number of price changes have occurred. A substantial advance has been notified in STIMONY METAL, the first for some considerable time. Supplies of ARECA NUTS are now being obtained on the spot. BENZON is in good request but the outlook for future supplies is poor. BISMUTH is steady on the recent advance. CARDAMOMS are in demand and scarce. A fair business is noted for CASCARILLA. CHILLIES are quiet but prices appear to vary within rather wide limits. CLOVES are steady at the higher price noted last week. Ample stocks of EUCALYPT are available. A few pence more would now be wanted for remaining supplies of ERGOT. GUM ACACIA is slightly easier on the spot. MALE FERN ROOT is temporarily exhausted. Shipments of Brazilian MENTHOL have been arriving and a fair business is reported; although a licence is unnecessary for the exportation of this material, D.M.S. permission is required before sales can be made either for export or home consumption. RHUBARB continues in good demand but the market is bare of supplies; some rhapontica is being sold. A few parcels of American SARSAPARILLA are reported afloat. Select grades of TRAGACANTH are scarce and firm. WAXES are unchanged.

Apart from reports of Brazilian PEPPER (M. Arvensis) for export and for probable

allocation to the home trade, little of interest has occurred in the essential oils markets during the week. English-distilled CLOVE is firm at recent prices. Oils outside the control scheme continue very scarce and are quoted at high prices.

The Advisory Committee of the Essential Oils Control, in conjunction with the Ministry of Food, have decided that the levy on all allocations made as and from February 1 next shall be 1 per cent. on the c.i.f. price. This rate will apply to all oils both those imported by the Ministry and through trade channels.

Dried Bitter Orange Peel

The Botanical Drug Import Merchants' Section of the London Chamber of Commerce has been informed that it has been decided to permit the importation of citrus peels through private trading channels without reference to quotas for other than medicinal purposes. Quotas allocated to qualified importers for importation of dried bitter orange peel during the period ending September 30, 1946 have, therefore, been cancelled. Accordingly importers should in future apply to the Import Licensing Department of the Board of Trade for licences to import dried bitter orange peel without reference to the Section.

U.S. Drug Market Report

New York, January 18

MANUFACTURERS in the U.S. chemical industry believe that the 200 million dollar expansion programme planned for the post-war period may have to be seriously cut due to the rapid advance in the cost of equipment and construction in the country. The U.S.-sponsored CINCHONA BARK development programme in Costa Rica and other Latin American countries organised during the war to provide bark for the manufacture of alkaloids such as quinine, may now be abandoned. Meanwhile, the U.S. Department of Commerce recently reported a substantial expansion of the cinchona tree acreage in India with more than 100,000 lb. of quinine sulphate produced in the 1944-45 season. STREPTOMYCIN, according to an American publication, shows great promise for the treatment of many serious animal diseases such as swine enteritis,

calf scour, fowl typhoid, etc. A generally steady price position prevails in COD-LIVER OIL, quotations being maintained around \$2.35 per gallon. The somewhat depleted stocks of this commodity should be improved by the arrival of a further Norwegian shipment within a month. The new Brazilian MENTHOL crop is not expected to exceed 25 per cent. of the previous. Farmers cut down production as a result of the small prices for the item in recent months. Prices for most crude and botanical drugs reflect the shortage of supplies, and a further long list of detentions by the Food and Drug Administration is impeding the restoration of depleted stocks. Under the new quotas established by the Mexican government for CANDELILLA WAX exports, the U.S. will receive only 50 per cent. of 1945 shipments, it is learned. Although quotations for CARNAUBA WAX have dropped, in the opinion of the trade they are still at a ridiculously high level compared with pre-war years. A shipment of Chinese CASSIA and CASSIA OIL is reported to have reached San Francisco but most of the arrival is already sold up. Heavy rains in Spain are stated to have reduced the season's output of oils and export prices have been raised.

Pharmaceutical Chemicals

ACETANILIDE.—In good demand with prices steady. Powder, 2s. 5d. per lb.; crystals, 2s. 6d.

BENZYL BENZOATE.—May be obtained for medicinal purposes at 5s. 6d. per lb.; 7-lb. tins, 4s. 6d.

CHLORAL HYDRATE.—Prices are as follows: 1 cwt., 3s. 10d. per lb.; 56 lb., 4s.; 28 lb., 4s. 2d.; 14 lb., 4s. 6d.; 7 lb., 4s. 9d.; smalls, 5s. 3d.

ETHERS (METHYLATED).—Makers report an advance in technical grades of 1½d. per lb. Contracts are included in the advance but anæsthetic ethers are not affected. New prices per lb. are as follows:—

Grade	w. qts. per lb.	Not less than	
		6 w. qts. per lb.	12 w. qts. per lb.
s.g.	s. d.	s. d.	s. d.
0.720 P.B. not for anæsthesia	1 11½	1 11	1 10½
0.720 B.S.S. ..	1 10	1 9½	1 9

GLUCOSE.—Home trade prices per lb. for powdered monohydrate are as follows: 14 lb., 28 lb., in 14-lb. lots, 11¾d.; 28 lb., 112 lb., in 14-lb. lots, 11½d.; in 28-lb. lots, 10½d.

MANDELIC ACID.—The following are the current quotations: 1 lb., 22s. per lb.; 4 lb.,

20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

METHYL SALICYLATE.—Demand is good. Prices are as follows: Small, 2s. 6d. per lb.; winchesters, 2s. 1½d.; 56 lb., in demijohns, 2 1 cwt., in demijohns or carboys, 1s. 11½d.; 5 cwt., 1s. 11d. All prices net.

PHENOLPHTHALEIN.—Current rates are follows: Less than 7 lb., 4s. 8d. per lb.; 7 4s. 7d.; 14 lb., 4s. 6d.; 28 lb., 4s. 5d.; 1 cwt. 4s. 4d.

Crude Drugs

ANTIMONY.—An advance in the price of metal has been announced as follows: English minimum 99.6 per cent. regulus, advanced £12 10s. per ton to £125; 99 per cent. by similar amount to £117 10s.; delivered; 70 per cent. crude, for the home trade, has increased by £10 to £100 per ton.

ARECA NUTS.—Spot supplies may now be obtained at 85s. per cwt.; shipment, 55s. c.

BALSAMS.—Canada is quoted on spot 13s. 6d. to 14s. per lb.; Peru is steady at 8s. 3d. and Tolu and Copaiba are unobtainable.

BELLADONNA.—Low-testing Indian root offered on spot at 2s. 3d. per lb.; English herb is priced at 4s. 6d. per lb.

BENZOIN.—This item continues in considerable request, but no supplies can be found on spot to meet the demand. The future outlook is obscure.

BISMUTH.—The metal is steady at the recently advanced price of 6s. 8d. per lb., minimum quantities of 5 cwt.

CARDAMOMS.—Firm and very scarce. Aleppy seed, spot, 8s. per lb.; Aleppy greens, 7s. 1 7s. 3d. per lb., spot.

CASCARILLA.—In good demand with up to 3s. 6d. per lb. paid for spot; offers from origin are reported at 2s. 6d. per lb., c.i.f. Cascarilla can be imported without a licence.

CHAULMOOGRA.—*Hydnocarpus* is unchanged on the spot at 2s. per lb., in tins in cases.

CHILLIES.—Quiet conditions obtain in these markets, with spot prices varying between 140s and 150s. per cwt., according to holder.

CINNAMON CHIPS.—In small supply at 2s. 2d. per lb. on the spot.

CLOVES.—Zanzibar are steady at the fractionally higher price of 1s. 8d. per lb., sellers, quoted last week; January—February shipment, 9½d. per lb., c.i.f., buyers' licence.

COCHINEAL.—Silvers may be obtained on the spot at 5s. 9d. per lb.

COCOA BUTTER.—The maximum price fixed under the official Order is 1s. 5½d. per lb., in factory or warehouse, but this price may be exceeded under licence.

COLOCYNTH.—Good stocks of fair-quality pulp may be obtained on spot at from 2s. 6d. to 2s. 9d. per lb.

DIGITALIS LEAVES.—English leaves are priced at 2s. 6d. per lb., and Portuguese at 140s. per cwt.

GOT.—It is understood that remaining stocks would be available at 7s. 9d. per lb.
GINGER.—West African continues steady on at 85s. per cwt.

ACACIA.—Kordofan cleaned sorts is on spot at 72s. 6d. per cwt.; bleached, 145s.; Talha, cleaned, 42s. 6d.

ENBANE.—Indian leaf continues to be on spot at 250s. per cwt., and Egyptian (*icus*) at 85s.

LAP.—About 3s. 6d. per lb. would be required on spot for material containing 10 per cent. resin.

AMALA.—Powder testing 6 per cent. ash would be obtainable on the spot at from 2s. 9d. to 3s. per lb.

ARAYA GUM.—Indian No. 1 gum is quoted at the spot at 210s. per cwt.

MALE FERN ROOT.—Spot stocks appear to be becoming exhausted.

ENTHOL.—Shipments of Brazilian have been coming in and a fair business has been done at 27s. 6d. per lb. in bond for export; there are also offers of duty paid at 30s. to 32s. per lb., now landing.

MERCURY.—Prices are controlled by Order (C. & D., October 13, 1945, p. 388). According to American sources production at the Italian mines in Tuscany was averaging 2,600 flasks a month by the end of last September.

MYRRH.—Good-quality Aden sorts is priced at approximately £18 per cwt.

MUTMEGS.—Supplies are difficult at present, current prices are: West Indian, 80's, 4s. per lb.; sound unassorted, 3s. 8d.; wormy and broken, 3s. 4d.

NUX VOMICA.—Cochin, washed and garbled, quoted from origin at 37s. 6d. to 40s. per lb., c.i.f.

PEPPER.—Whole, not picked over or cleaned, for processors, is officially priced at 1s. 4d. per lb. for white and 1s. per lb. for black.

PIMENTO.—Quiet conditions obtain with offers on spot at 1s. 5d. per lb.; afloat, 137s. 6d. per cwt., sellers, c.i.f.

RHUBARB.—A good demand is being received for this item, but no spot supplies are obtainable. French rhapontica has been offered on spot at 3s. per lb., and Indian rhapontica at 5s. per cwt.

SARSAPARILLA.—Jamaican is urgently wanted. It is understood that a few parcels of root will be priced at 4s. to 4s. 6d. per lb., c.i.f.

SEEDS.—A good deal of inquiry is being received, but actual business is poor. Current prices are as follows: **ANISEED.**—Turkish, spot, 1. 8d. per lb. **CORIANDER.**—English, spot, 5s. per cwt., sellers. **CUMIN.**—Maltese, spot, 10s.; Indian, none available. **DILL.**—Spot, London, 80s.; Liverpool, 80s. **FENNEL.**—Nothing available. **FENUGREEK.**—Hull, 67s. 6d. **MUSTARD.**—The Mustard Seed Order, 1945, places the Mustard Seed (Control and Maximum Prices) Order, 1942.

SENEGA ROOT.—About 11s. 6d. to 12s. per lb. would be the spot price of any available supplies.

SENNA.—Alexandrian hand-picked pods are in good demand; the price is nominal at 4s. per lb. Good manufacturing Alexandrian pods are quoted at 2s. per lb.; Tinnevely leaves, No. 1, 10½d.; No. 2, 8½d.; No. 3, 7d.

STROPHANTHUS SEED.—Dealers offer spot supplies of 100 per cent. Kombe seed at 7s. per lb.

TRAGACANTH.—Select grades are scarce and firm at £155 per cwt. Medium grades are quoted as follows: No. 1 white, £145 per cwt.; No. 2, white, £120; No. 3 white, £110; No. 4 white, £85; pale leaf, £50; amber leaf, £50; dark amber, £35; brown leaf, £25; red-and-brown leaf, £20; red leaf, from £17; hoggy, £12 to £15.

TURMERIC.—Sound-quality Madras finger may now be obtained on spot at 120s. per cwt., sellers; forward shipment, unchanged at 67s. 6d. per cwt., c.i.f.

WAXES.—**BEES'.**—Dar-es-Salaam, February-March shipment, 295s. per cwt., c.i.f.; Benguela, January-February shipment, 285s. per cwt., c.i.f. **CARNAUBA.**—Fatty grey, to arrive, 675s. landed; afloat, 650s.; February-March-April shipment, 600s., nominal, c.i.f.; chalky grey, spot, not available; March-April shipment, 595s., c.i.f.; prime yellow, spot, 800s., nominal; February-March shipment, 710s., nominal, c.i.f.

Essential and Expressed Oils

CASTOR.—Bulk supplies are officially quoted as follows: "Firsts," £82 per ton; "seconds," £80, both naked ex works.

CLOVE.—Price of English-distilled bud oil is unchanged at 12s. 6d. to 13s. per lb., according to quantity.

COCONUT.—The following are the fixed prices for bulk quantities: Crude, £49 per ton; refined deodorised, £49; refined hardened deodorised, £53.

COTTONSEED.—Official quotations are as follows: Crude, £52 2s. 6d. per ton; washed, £55 5s.; refined edible, £57; refined deodorised, £58, naked ex works.

GROUNDNUT.—Refined deodorised is officially priced at £58 per ton, ex works, in bulk quantities.

OLIVE (EDIBLE).—Price charged to wholesaler by importer is 25s. 9d. per gall., ex store. Prices charged by wholesalers to retailers are agreed by Ministry of Food as follows: 33s. 6d. per gall. in 1-gall loan cans; 34s. 3d. in ½-gall. loan cans; 35s. in 1-quart loan cans; 36s. per gall in 1-pint cans.

PEPPERMINT.—Some *Arvensis* from Brazil is reported to have arrived but is for export only. The quality is stated to be good and the price is given as from 20s. to 30s. per lb., according to holder. It is also reported that a quantity of this oil imported under official auspices will shortly be allocated to the trade.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their name and address to the Editor

Herbert Skinner Memorial Fund

SIR,—On the anniversary of the death of Mr. Herbert Skinner the appeal committee of the North London Pharmaceutical Association wishes to express, through the medium of your columns, its appreciation to all friends who have subscribed to the Memorial Fund. The monies received now total £175 and the committee thinks it desirable to close the Fund on March 31, by which time it is hoped that any friends who have not yet had an opportunity of subscribing may have done so. It is the intention to use the sum for the express purpose of providing some lasting memorial in the British Pharmaceutical Codex committee rooms at Brunswick Square. Subscriptions should be sent to the treasurer for the appeal committee (Mr. J. C. Young, Ph.C., 34 Bethune Road, London, N.16).

Yours faithfully,

J. C. YOUNG.

London, N.16.

The Customer is Right ?

SIR,—I should like to point out through the medium of your paper that it is about time we retailers could order the toilet goods that our customers require and not have to take what is sent whether we have a demand for it or not. I have heard from representatives that what is a drug on my market is urgently wanted many miles away and also what I would like is getting dirty on shelves elsewhere. If there is any dictation the first should come from the customer who surely should be able to say what he or she wants for his or her money. In the next step up the same thing should apply to the retailer. I am glad to say that some firms have seen this point and they are obliging by sending what we ask for, which is very good business as they are wise in going after the goodwill of the customer. I am afraid other firms who do not copy will be deserted. Yours faithfully,

Taunton.

W. VARLEY.

Council Candidates' Canvassing

SIR,—The committee of the North Metropolitan Branch of the Pharmaceutical Society considers the proposed by-law concerning canvassing by Council candidates (see *C. & D.* 1945. II. 619) to represent a further encroachment upon the democratic privileges of members, and asks you to publish the following further observations—

1. The committee thinks it desirable that some reasonable restrictions should be placed upon canvassing by candidates but is opposed to the proposed by-law in its present form.
2. No limitation should be placed upon candidates' expressing their views at branch meetings.
3. Under the present system of electing some inter-branch co-operation is considered desirable, whereby the ability of unknown candidates may be recommended.
4. It is suggested that the Council should not stand in judgment in its own case and that an independent committee should decide to disqualify.
5. A statement of the candidate's political views should be circulated to all the pharmaceutical Press.
6. Since the proposed by-law exceeds the original proposals of March 1944, it cannot take effect before the 1946 election, it is suggested that it should be placed on the agenda for the next Branch Representatives' meeting.

Yours faithfully,

Potters Bar. A. B. FOOTITT, *Secretary*.

TRADE MARKS

(From "The Trade Marks Journal," January 9)

- "ELASTIKON"; for adhesive plasters and dressings for surgical use (5). By Johnson & Johnson (Gt. Britain), Ltd., 603-04 Bath Road, Slough, Bucks. 636,243.
- "SUNPAX"; for pharmaceutical preparations and substances, excluding medicated confectionery (5). By Amovon, Ltd., Wyndbrook Laboratories, Southfield Lane, Bradford Yorks. 636,515.
- "BARCO"; for medicines for dogs (5). By P. F. McAuliffe, c/o McKenna & Co. 14 Waterloo Place, Pall Mall, London S.W.1. 636,558.
- "MAGNAPIN"; for hair dressing appliances being hand implements (8). By Magnapin, 15a Whitcombe Street, Pall Mall East, London, W.C.2. 636,853.
- "TRIDENT"; for brushes (21). By Lion Brush Works, Ltd., 3-5 Charlotte Square, Newcastle-on-Tyne. 636,627.
- "LORONA"; for babies' napkins (25). By H. Franc & Lauder, Ltd., 4 Chepstow Street, Manchester, 1. 634,915 (Associated).



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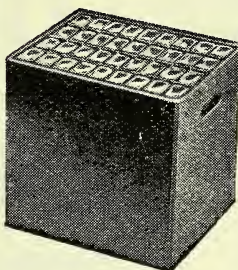
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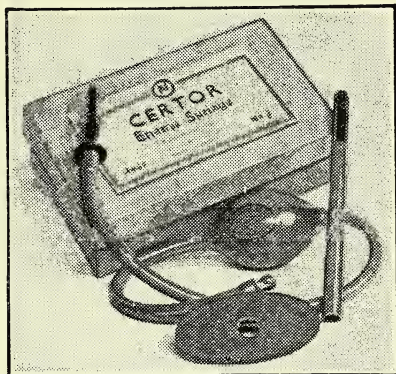
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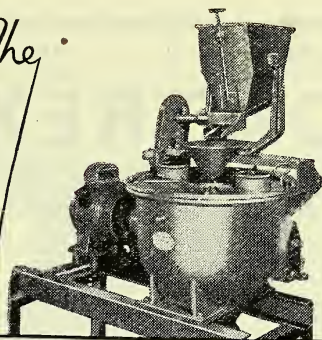
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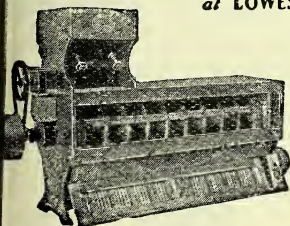
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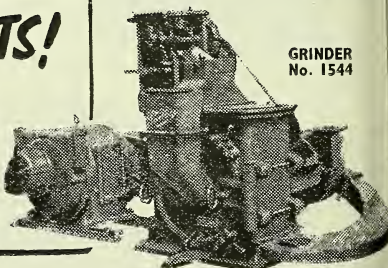
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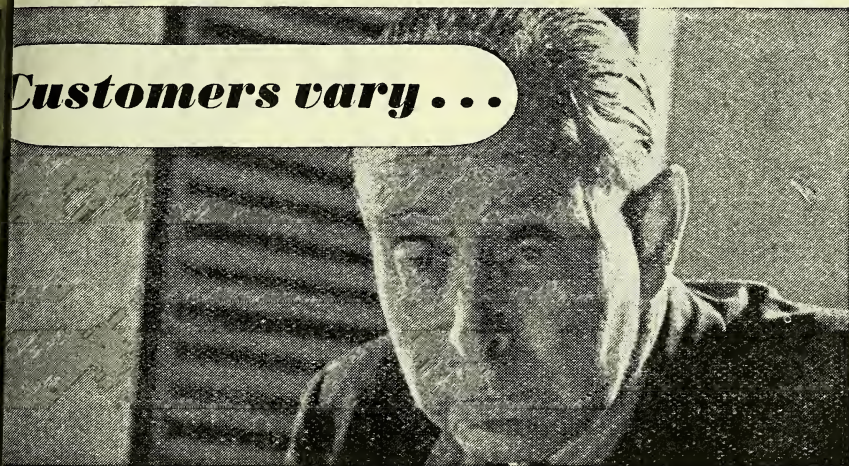
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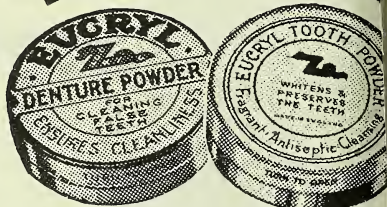
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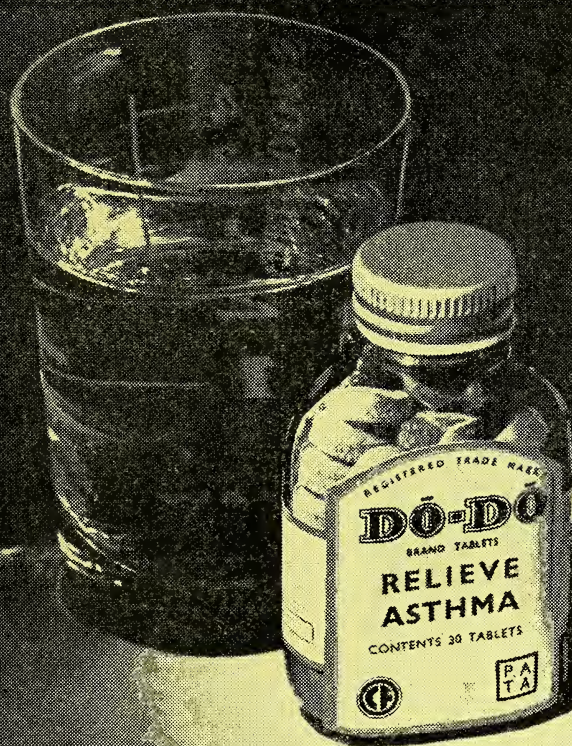
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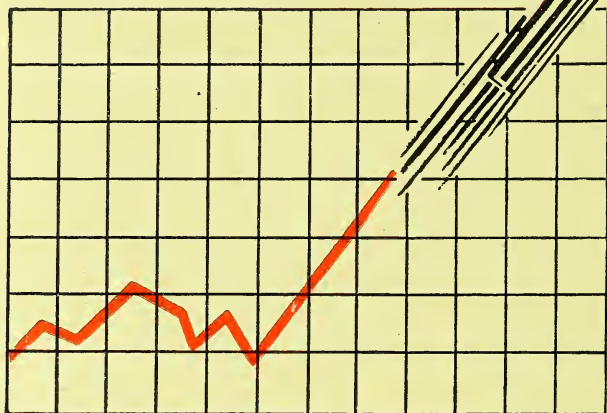
ne Dō-Dō will often abort an asthma attack
TABLETS 1s. 1½d. • 30 TABLETS 3s. 4½d. • INCLUDING P.T.

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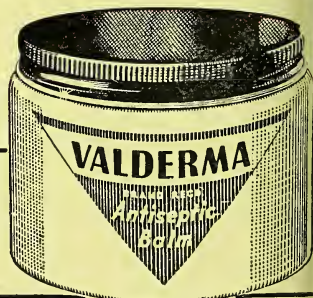
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ORDER NOW STANDARD SIZE 2/- a jar including tax. Trade price 15/- per doz. Purchase tax 2/6 per doz.

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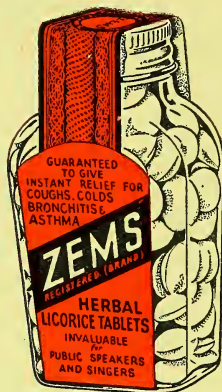


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HERBAL LICORICE TABLETS

**THE BEST MEDICATED TABLETS
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*Supplies may be obtained from C.F.
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Shades packed in colourful
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HELLE, NATURAL, PEACH,
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Orders for
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Distributors: S. MAW, SON & SONS LTD.

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MY LADY'S VANISHING CREAM

For loveliness and charm—Delicately perfumed.

Setting Lotion, Solid Brilliantine, Brilliantine,
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LABELS FOR THESE LINES—6/- per gross.

PERFUME — COLOURING — BOTTLES — JARS.

EMULSIFIERS—Needing hot water only to give
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For Grey or Faded Hair.

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CONTAINING D.D.T./GEIGY.
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RETAIL PRICES:

QUID . 1/3 6/- 15/- Usual Cupal
POWDER . 1/3 & 10/- Profit Margins

Post your order now if our
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COAL Ltd., Mfg. Chemists, BLACKBURN

*Make Money
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Sell
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**MOTH
RINGS**

RETAIL AT

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Whole-
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18/- Per Gross

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*The finest products are
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for all types of
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A range of Colours
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REALLY COMPETITIVE PRICES

Your enquiries for these
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for all purposes
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Early delivery in all sizes
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PAPERWARE · BOXES · PLASTIC CAPS



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C.R.S. does NOT operate in C.I.
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Every single C.R.S. wood and fibreboard case must be kept working. Otherwise deliveries to you may suffer.

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★ *Cleans as it Polishes*

THE MODERN METHOD OF CLEANING

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USED BY ALL LEADING SILVERSMITHS

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FOR IMMEDIATE DELIVERY
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£4 4s. 0d. per case of 7 dozen,
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Maximum quantity 10 gross.

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Rats and Mice, single tube, 2/- 15/- per doz
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Used tubes returned to us postage paid will be
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Bles 6/- each 4/6 each
4/6 " 3/9 "

**HALLER'S EXTRACT OF SQUILL and
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Dis- ant off Retail Prices 25% Monthly Account, or
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DANZO BEETLE POWDER

estroying Blackbeetles, Cockroaches, Crickets, etc.
Prices (Protected) Wholesale Prices
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1/6 " 13/6
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Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS

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Have you weighed up the idea of making the dogs and cats in your district into customers? Pet welfare is becoming an increasing public interest. Pet owners are consulting experts about the health of their dogs and cats. Every chemist can turn these facts to profitable advantage by stocking George Bell's Blood Salts for Dogs, and Cat Powders

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**BLOOD SALTS for Dogs
CAT POWDERS**

Date, 1946.

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Dear Sirs,
We are doing our utmost to obtain adequate supplies of SPONGES, but meanwhile we must ask you to continue the same forbearance which you have shown during the war-time shortage.

The Directors and Staff wish you a HAPPY NEW YEAR, and, in thank-you for past favours, look forward to the renewal of a very pleasant business relationship in the near future.

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Telephone :

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SPONGE, HOLB.,
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The Demand is Here, There and Everywhere. Shortly you, too, will be able to buy. For the present Miscellaneous supplies avail.

Setting Lotion, Hair Cream, Brilliantine Cream, Cold Cream, Vanishing Cream, Brilliantine, Face and Talcum Powder, Bath Crystals, Salts and Cubes in powder form, Perfume, etc., etc.

"By Purchasing." Gum Trag., Emulsifying Waxes Rohsem VX. and 0584, Beeswax, Stearic Acid, Glycerine, Odourless White Mineral Oil, Oxides, Chalks, Liq. Ammonia, Borax, etc. Sodium Carb. Crystals, Sesquic. of Soda, LL/X.E.P. "Lamaur" Perfume and others.

Colours for the above uses and Lipstick, Liq. Stocking, Leg Tan, etc., etc.

YOUR PACKING TROUBLES SOLVED
Embossed Perfumery Labels, comprehensive selection from 2/6 per 250, average 6/- per 250.
Glassware—Hair Cream Jars, etc.

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Miscellaneous—Powder Puffs, Compacts, Manicure Requisites, Curlers, Liquid Shampoo, etc.

Special Services—Technical information and Formulas. Special illustrated formulas also on request. Ask for Samples, Price Lists. 3d.

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LARGEST-SELLING
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Always the Best
TOILET PAPER
*Velvety texture • soft
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**A VELVET
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NEW TWO-WAY TREATMENT FOR RHEUMATIC AILMENT

SUPPLIES ARE AVAILABLE of
RHEUMA SALTS
for internal treatment
4 oz. jars 9/- doz. and 16½ tax Retail 1/3

KLEROSAL BATH CONCENTRATE

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4 oz. bottles 25/- doz. and 16½ tax Retail 3/6
8 oz. bottles 40/- doz. and 16½ tax Retail 5/6
Bonus: 14 to doz. for initial order

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ARLO PRODUCTS

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millions will shortly be seeing our new
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Arrangements have been made for this new 200 ft. film,
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"	- - Odeon	"	- - Gaumont
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"	- - Rialto	"	- - Scala
"	- - Trocadero	BIRKENHEAD	- Gaumont
" (Allerton)-	Plaza	"	Queen's Hall
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" "	- Odeon	"	Super

Watch for the film in your town and look to your
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BiSoDoL
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Sole Distributors :

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 REQUIRING GOOD QUALITY BOTTLES & JARS**

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**PLASTIC SCREW CAPS FOR
BOTTLES AND JARS**

Comprehensive range now available for early
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 by sample container.

REX CONTAINERS LTD., 65 PORTLAND PLACE, W.1

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We invite your enquiries for all types
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All work carried out efficiently and
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CETYL ALCOHOL, superfine ph-
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 finest grade for use in cosmetics, phar-
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Both for immediate
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Unlimited Quantities for prompt dispatch
 Surgical Fabrics—Rubberised Sheeting, Baby
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**Combs in various sizes and
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 immediately for export**

636/906, C. & D. London Office

FOR USERS ONLY

1-oz., 2-oz., Squat Jars ; 4-oz., Tall Amber Jars ;
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**PERFUMES SUITABLE FOR
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Details and quotations on application to—

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Files (carded 1 doz.) 5/6 doz. Tax 100%
 packets, small with puff 30/- doz. Tax 100%
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Comforters, dummy
 shape 16/6 doz. Tax free
 C.O.D., Cash with Order or Pro forma.
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Complete Chemist's Shop Fitting in Maho-
 28 ft. 6 in. x 9 ft. high, fitted with 5 glass
 display cases, 5 sets of display shelves,
 drawers, 22 cupboards. In sections, can be
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Methyl Cellulose ... 192 lbs.
 Gum Sulphate Crystals 2,856 lbs.
 Stuffed Corks with black
 elastic Tops ... 11,000 doz.
 Green Caps, 2 oz. ... 250 gross
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ARKSHIRE AREA, can undertake the
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Keen deliveries of quality tablets

Write first instance 938/972 C & D London Office.

METAL CAPS FOR JARS.

gross for 2 oz. size and 100 gross for 4 oz.
 Also 160 gross Round 4 oz. Glass Bottles
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 Special prices to clear. Samples and prices on
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GUM TRAGACANTH

Highly powdered Gum Tragacanth (1st
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 Aspirins, 12s., 27/- gross. White Petroleum Jelly,
 2 oz. tins, 4/6 doz. Merrit Talcum Powder, per-
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 1 oz. tins, 4/- doz. Lanoline Ointment, 1 oz.
 tins, 5/- doz. Snoodies with elastic, Pink only,
 7/6 doz. Cot Sheets from 36/- doz. Baby Pants,
 25/- to 30/- doz.; also job line 16/- doz. Powder
 Puffs: Lambswool from 10/6 doz.; Velour type
 18/- doz.; all assorted colours and Cellophane
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 5/- doz. Nail Clippers, 16/6 doz. 3 1/2" Tweezers,
 assorted ends, 15/- doz. 4 1/2" Tweezers, Flat ends,
 15/- doz. Eyebaths from 4/6 doz. Rustless
 Safety Pins, 4/6 gross. Invisible Hairpins, 4/8 per
 1,000. Hair Slides from 4/6 doz. Hair Nets, full
 elastic, 46/6 gross. Hindes' type Metal Hair
 Curlers, 24/- gross. 4" Wave Setters, 10/6 doz.
 Lipsticks, complete in Bakelite Case, 20/- doz.
 Teething Rings, 6/- doz. Emery Boards and
 Orange Sticks, 24/- gross. Shampoos: Missie,
 3/- doz.; Beatrice, 3/4 doz.; Thelma, 5/8 doz.;
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Above prices include Purchase Tax

All goods guaranteed from reputable
 manufacturers. Delivery 7/10 days.

Terms C.W.O. or C.O.D.

Credit to approved accounts only.
 See S.A.E. for full list.

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Every pharmacist should read "Truth about
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Subject to being unsold, we can offer bulk supplies
 of the following: Caffeine Salts, Chloral Hydrate,
 Glyceril Mono-Stearate, Essential Oils, Stearic
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Constant demand

"ABECEDIN" Vitamins A-B-C-D

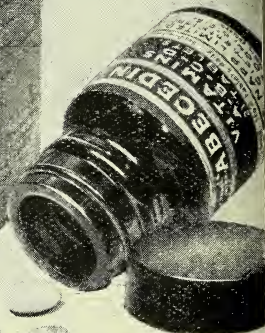
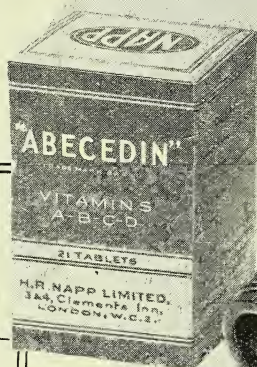
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Bottles	21	-	3/6
"	105	-	16/6
"	500	-	75/-
"	1,000	-	148/-

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Bottles	4 oz.	-	5/-
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FREE from Purchase Tax



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Telephone : HOLborn 1444

Telegrams : "NAPPCHEM, LONDON"

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is included in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

JANUARY 26
1946

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RETAIL (HOME)

QUALIFIED or Unqualified Assistant (Male or female) required, usual particulars to Messrs. J. C. Co. Ltd., 79 Baker Street, W.1.

PTS have vacancies for Qualified men of outstanding ability who are ambitious, keen, prepared to work hard; ex-Service men are preferred. Are you above average? If so phone, or call Ascotts Pharmacies (1933), Ltd., 40 Avenue, Wembley. Phone Wembley 2113.

NON-UNDER-LYNE Co-operative Society Ltd.—Pharmacist required to manage branch; day or half-holiday duties. Apply, giving particulars, to Co-operative Society Ltd., 11a, Stamford Street, Ashton-under-Lyne.

STANT, unqualified, required. Duties principally dispensing, with some counter work. Agency. Sittingbourne, Kent. Please give details of age, experience, salary required, and references. 946/340, C. & D. Office.

NGH Manager required. Suit ex-Service pharmacist. Apply Loxley, 66 St. Giles', London.

ISTS (QUALIFIED), Male or Female, required immediately to take charge of Branches in Shire, Lanarkshire and Ayrshire. Applications giving full particulars and endorsed "B/M" to be sent to Scottish Co-operative Wholesale Society Ltd., Technical Supervisor, Retail Drug Department, 187 Bogmoor Road, Shieldhall, Glasgow.

Wages and War Bonus as per Co-operative Agreement.

ISTS Assistants (Ladies) wanted for clerical work in the N.H.I. checking bureau and pricing departments. Apply National Pharmaceutical Union, 4/5 Queen Square, W.C.1.

ENTRY. Young Qualified Assistant, lady or gentleman, required for dispensing and retail duties. Apply, with details, W. A. Underhill, 14 Butts, Coventry. Phone 4497.

PENSERS. Experienced men and women required Central London area; full time; agencies. Apply "D," c/o 945/292, C. & D. Office.

TBOURNE. H. C. Browne requires a qualified assistant for high-class dispensing; also unqualified assistant; state salaries ed. 44 Cornfield Road, Eastbourne.

NBURGH qualified Manager or Managers for branch with family and dispensing trade; age, experience and when available. 946/349, C. & D. Office.

PERIENCED Qualified Lady Assistant required for sole Pharmacy in large Sussex town. Dispensing, Counter, etc., light, clean work conditions; congenial atmosphere, pleasant surroundings; generous salary to right person; agency; other assistants. 943/251, C. & D. Office.

PERIENCED lady assistant required, full or part time, for busy main road business. Full particulars to S. A. Waters, 2 Westbury Parade, Ham Hill, S.W.12. Battersea 6288.

JERSEY. CHANNEL ISLES. Position offered to Qualified Chemist as Assistant and Dispenser in old Established High Class Pharmacy. Applicant must be energetic and accurate and of good all round education. Write enclosing references, particulars as to age, height, and salary required. Enclose photo to: C. B. de Faye, Messrs F. G. de Faye Ltd., Chemists, David Place, Jersey. Income tax 4/- in £.

HEPELLS require several qualified men for West End branches, also lady toilet and drug assistant. Apply Superintendent, Heppells (1932) Ltd., 70 Vauxhall Bridge Road, London, S.W.1.

HEPELLS require several pharmacists and unqualified assistants for West End branches. Apply Superintendent, Heppells (1932) Ltd., 70 Vauxhall Bridge Road, S.W.1.

HERTS. Qualified Lady or Gentleman required; permanency; very reasonable hours; good salary. Post eminently suitable for Pharmacist who prefers undisturbed dispensing; no counter duties unless applicant prefers. 943/253, C. & D. Office.

LADY Dispenser Assistant wanted. No Sunday Duty. Permanent. Apply, giving full particulars, qualifications and salary required, to Drs. Mann, Leitch & Partners, 1 Fairfield Avenue, Staines, Middx.

LADY Assistant required in pleasant seaside resort. Duties include light dispensing and assistance at counter. Congenial situation, pleasant, clean working conditions and no holiday duties. Hours, 9 to 6 week-days, and usual half holiday. Please state salary required and send photo if possible. Wilfrid H. Curtis, 55 Bohemia Road, St. Leonards-on-Sea.

LADY Unqualified, for Chemist's Office. Central London. Apply "A," c/o 945/319, C. & D. London Office.

LONDON, unqualified assistant for dispensing and counter. Easy hours and no early closing or Sunday duty. Permanency. Would suit recently demobilised man. Apply, with usual particulars, to "Chemist," 340 Harrow Road, W.9.

LOCKHURST LANE CO-OPERATIVE SOCIETY LTD. have a vacancy for qualified Pharmacist male or female for Central Pharmacy; permanent progressive position; no Sunday or half-day duty; superannuation scheme in operation. Apply stating age and experience, etc., to Pharmacist, 376 Foleshill Road, Coventry.

MANCHESTER AREA Qualified must be First-class Dispenser, ethical, neat, good appearance and well dressed. Excellent prospects. Salary £10 10s. 48 hour week; 3 weeks holiday with pay. 947/379 C. & D. Office.

QUALIFIED assistant required; salary £8 weekly. Also unqualified assistant for counter and dispensing; salary £6 weekly. No Sunday or holiday duties. Permanent posts. Apply E. Tranmer, M.P.S., 42 High St., Smethwick, Birmingham.

QUALIFIED required for busy shop with ample assistance. Good salary and bonus for a chemist who desires position where he can be happy and independent. Reliable unqualified assistant required either sex. Permanency with good salary. Please give all full particulars. 947/380, C. & D. Office.

QUALIFIED Dispenser/Assistant required immediately for High-class Pharmacy; unfurnished flat over shop available. Applications with full particulars in first letter will receive preference. Henry Davis (Newbury), Ltd., Dispensing Chemist, Northbrook Street, Newbury.

QUALIFIED Lady or Gentleman required for High-class business in N.W. London suburb; view to partnership entertained; excellent prospects for increasing business. Apply 947/368 C. & D. Office

QUALIFIED Chemist (M.P.S.) required to take charge of Wet Counter. Apply: Lofthouse & Saltmer, Ltd., 31 Holwood Street, Hull.

QUALIFIED Pharmist for dispensing in high-class pharmacy. Good prospects for right man. Excellent references essential. Apply J. W. Quibell, Ltd., 855 Finchley Road, Golders Green, N.W.11.

ROYAL ARSENAL CO-OPERATIVE CHEMISTS, LTD., invite applications from Qualified Pharmacists for the position of Manager; Unqualified Assistants also required; good prospects and holidays with pay. Apply in writing, stating age, experience and salary required, to the Superintendent Chemist, Royal Arsenal Co-operative Chemists, Ltd., 113 Fowls Street, Woolwich, S.E.18.

SANGENE Products Ltd. are re-organising their selling force and seek first-class representatives in all areas (Fidelity Bond). Expenses and Commission. Write, giving particulars to Monument Buildings, opposite Monument Station, E.C.3.

SELRIDGES, LTD., require an Assistant Buyer for the Drugs Dept.; the appointment carries a good salary for an energetic and fully qualified young man. Also an Unqualified Dispensing Assistant (male or female) required with good practical experience; no week-end duties. Apply Staff Manager, 400 Oxford Street, W.1.

UNQUALIFIED Assistant required immediately for medium-class business; congenial situation with permanency for suitable applicant; no extra duties. State age, experience, salary required in first letter to Jones, Chemist, 155 Canaan Road, Northolt, Middx. 16. Waxow 1817.

UNQUALIFIED Assistant immediately (unmarried) for light N.H.1. and counter serving. Hours 9 a.m.—6 p.m. daily (dinner 1 hr.), Friday 9 a.m.—1.30 p.m., Sat. free, Sun. 10 a.m.—2 p.m. No bank holiday duty nor late turns. London, E. State full particulars in first letter and wages required. 946/353, C. & D. Office.

WANTED immediately, Unqualified Dispenser. Male or Female for high-class Family and Dispensing Business in Yorkshire. 945/315 C. & D. Office.

RETAIL (OVERSEAS)

WEST AFRICA. A permanent and progressive career is offered to qualified Chemists and Druggists (English certificate only). Commencing salary £500 per annum. Separation and children's allowances to married men. Tour of 21 months' duration, free passages, furnished quarters, medical attention and membership to pension fund. Write giving full particulars to "E. K.", c/o Charles Barker & Sons, Ltd., 31 Budge Row, London, E.C.4.

WHOLESALE

ADDITIONAL Lines offered in all areas; Powder Puffs, Nursery Lines, etc.; good commissions to right representatives; all first-class products. 943/254, C. & D. Office.

AGENTS, calling on Retail Chemists and Manufacturing Chemists, wanted to represent London firm of Container Merchants. Please write with full particulars, stating counties covered, to 947/364 C. & D. Office.

ANALYTICAL Chemist required by London Manufacturing Chemists. Practical works experience of general routine analysis and alkaloidal assays of drugs, including Opium, essential. 5-day week. Reply, giving particulars of experience, salary, etc., to 946/357, C. & D. Office.

ASSISTANT required for Tablet department Manufacturing House, London, N.W. Experience of granulation processes desirable. Also Compounder for preparation of Pharmaceuticals. Positions offer opportunities for advancement conscientious workers. Apply, stating age, experience and salary required, to 947/374, C. & D. Office.

BOB MARTIN LTD., Southport, have vacancies for an Assistant Chemist in their laboratory. The work is mainly pharmaceutical analysis (a reliable and accurate analyst is required), and applicants must have Ph.C., B.Pharm., or F.I.C. (Food Drugs) qualification. This position has good prospects for the right man with initiative, energy, organising ability and used to staff control. Knowledge of Veterinary medicine would be an advantage. Apply giving full details of age, experience and salary required to Chief Chemist, Bob Martin Ltd., Southport, Lancs.

CHIEF BUYER. A first class and progressive position is vacant in a leading organisation Manufacturing Chemists in London. The purchaser covers a wide field of supply of raw materials, components, packaging, etc. It will go to a man in early thirties; a man of education, energy, loyalty and inherent executive ability. 5-day week. Applications in writing will only be considered if they give fullest details of age, buying experience, etc. Write to 947/373, C. & D. Office.

EXPERIENT Tablet Coater required by Manufacturing Chemists in West of London; good wages paid to right man. Send applications, together with references and wages claimed, to Box 888A, Smith 100 Fleet Street, E.C.4.

EXPERIENCED Tablet Maker required for pharmaceutical and industrial products. Apply Personnel Manager, A. Boake, Roberts & Co., Ltd., Capenters Road, Stratford, E.15.

EXPERIENCED Representative required for well-known Wholesale Chemist. Sandhurst House for calling on Retail in Midlands. Please state in confidence full particulars—experience, wages required, ground previously covered, age, etc. 946/355, C. & D. Office.

INDUSTRIAL CHEMIST required for Rubber works (Latex dipping). Full particulars in writing to Transtex, 319 Broad Street, Birmingham.

JULES Lang, 7 Charlton Place, Islington, N. have vacancy for clerk having full knowledge of Perfumery and Medical Bottle trade.

LIVE Assistant wanted. Accustomed to organisation of dispatch of drugs and pharmaceutical goods. Good salary. London. 947/372, C. & D. Office.

MANUFACTURING CHEMISTS invite confidential applications for the position of Assistant Chemist in their laboratory. Applicants must possess Ph.C., or equivalent pharmaceutical qualification and have a sound knowledge of modern analytical methods applied to pharmaceutical products. Previous works experience is desirable but not essential. Excellent prospects for enthusiastic worker with personality. Give fullest details including salary, required, and names of references. 947/378, C. & D. Office.

MANUFACTURERS and Distributors require experienced Travellers with established connections among Chemists, Stores and Good Class Hairdressers; car advantage. Salary, Commission and Expenses. State (first letter) details previous experience, territory covered, etc.; Box No. A3266. W. H. Smith & Son, Ltd., Manchester 3.

MEDICAL representatives required for Midlands and Scotland, by manufacturers of ethical medical products. 947/367, C. & D. Office.

P.H.C.B. PHARM. OR B.S.C. to visit medical profession to introduce new antibiotics and biologicals for manufacturing chemists of high repute. State age, details of education, qualifications and previous experience in first instance. Applications will be treated in confidence. Write to 945/321 C. & D. Office.

PROCESS Workers, Pharmaceutical, required. Experience essential. Write Hirst, Brooke & Hirst Ltd., Sheepscar Works, Leeds 7.

EMER and Works Chemist required, theoretical, trustworthy, possessing initiative and academic background together with experience in the formulation and manufacture of perfumes (including compounds for toilet and toilet preparations), should be able to take charge of laboratory, buy raw materials and small staff. Applications should be made to Managing Director, T. F. Bristow & Co., Lindale, N.W.9, giving full details of past age and salary required. Only written ones considered.

REPRESENTATIVE required for London, on a commission basis, by an old established firm. Have a good connexion with first-class chemists. Quick delivery of goods always in demand. 948/393, C. & D. Office.

REPRESENTATIVES (2) required by a firm of manufacturing chemists selling nationally sold proprietary remedies. One should be in the Home Counties or London; one in the Midlands or North. Reply stating salary and if car owner. Full particulars, experience, 947/391, C. & D. Office.

WOMEN with good connections and who know how to sell advertised lines for the following areas: 1, London; 2, Yorkshire; 3, West of England and Wales; 4, South Coast, South London; 5, Shire Leicestershire etc. Commission for the job with revision later if desired and ability. State actual area covered and lines carried. Engagement can be worth over £10 per week to you. Apply to Sales 945/317 C. & D. Office.

NET Coater required by Midland Manufacturing Chemist. Write stating age and experience to 632/749, C. & D. Office.

NET Maker required for London Drug House. Permanency for suitable man. Write with details of experience, age and salary, 947/366, C. & D. Office.

NET Making. Assistant required with some knowledge of drug trade to train as Granulator. Write with details of experience, and age, 947/366, C. & D. Office.

Research Chemists, one with knowledge of organic Synthesis, and the other with experience of Plant Extracts, Alkaloids and Glandular tissues, required by Canadian organisation. To both men these represent great opportunities. In confidence to 944/275, C. & D. Office.

TELEPHONE required with knowledge of chemist lines for prominent and progressive firm with Wholesale Chemist. Apply in writing to Midland Drug & Chemical Co., 1 Robert St., N.W.1.

FOREWOMAN required for Cosmetic factory in London, N.1. Experience in factory labour necessary. Apply 948/400, C. & D. Office.

VETERINARY Representative. Burroughs Wellcome & Co. have a vacancy for a qualified chemist for this position. Previous experience essential, but applicants should have a good knowledge of modern veterinary therapeutics. Must be progressive and pensionable (contributory). Applications (by letter only) which will be treated in strictest confidence, should include the particulars of age, height, present salary, and if available, etc., and should be sent to the Manager, Veterinary Department, 12 Red Square, W.C.1.

ANTED Chemist with ideas for new lines capable of supervising production. Partnership can be considered with right man. Apply in confidence, 947/377, C. & D. Office.

ANTED, Representatives calling on retail chemists in England, Scotland, Ireland and abroad, to carry additional good selling lines. State area covered, and references. 946/334, C. & D. Office.

WORKING Foreman for Manufacturing Department of Cosmetic Firm in London, N.1. Must have knowledge of Creams, Lipsticks and General Lines, etc. Particulars of experience, age, and salary required. Write 948/399, C. & D. Office.

WANTED Export Manager with experience and initiative to develop export trade. Duties to commence immediately. Good prospects for the right person. Applications with full particulars, references and salary required to 947/392, C. & D. Office.

WORKS Manager-Chemist wanted by old-established firm of Ointment manufacturers. Slough district. Commencing salary £50 monthly. Knowledge of factory lay-out and modern production methods. Write, giving details of experience, to 946/337, C. & D. Office.

WORKS Manager required by progressive firm of Drysalts, Oil and Chemical Merchants in Bristol. Experience in the trade essential. Salary according to capabilities and experience. Applicant should write in first instance giving full particulars of recent employment, qualifications and salary required to 947/384, C. & D. Office.

SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word.

RETAIL (HOME)

M.P.S., age 34, 10 years' all-round retail trade experience, plus 3 years as sergeant of medical stores serving abroad, seeks responsible position in good-class Pharmacy or Wholesale House in London or Overseas. Release in about 4/5 months (group 32). 946/348, C. & D. Office.

YOUNG Ex-serviceman, excellent retail dispensing and general experience, now with manufacturing house, available in evenings and weekends to assist chemists or doctors. Treglown, 22 Chrystall Road, Brixton, S.W.9.

WANTED. Unqualified Assistant for good-class retail and dispensing, must have had good experience in quick, modern dispensing; permanency and good salary. T. E. Savage Ltd., 30 Broadway, Crouch End, N.8.

WHOLESALE

A WELL-KNOWN Agent is open to take one other line, or range, for distribution to Chemists and Stores in the London area. Sole agency and first-class products only considered. Excellent coverage given by first-class representative. 944/258 C. & D. Office.

ADVERTISER, with 30 years' Wholesale and Retail experience, desires position as Checker or Stock-keeper with Wholesale House; London or Croydon area; ex. refs.; interview, free Wednesday afternoons. 942/198, C. & D. Office.

ADVERTISER requires responsible position. Experienced manufacturing, production, and plant, staff control, disciplinarian. Knowledge of tablets and tablet machines. 947/382, C. & D. Office.

ARE you needing an experienced Representative actually calling on chemists? Live London connexion wholesale and retail sales organiser; only reputable houses considered; own car; worker. 948/397, C. & D. Office.

AVAILABLE immediately, for progressive position, wholesale or retail, gentleman, 37, well educated, fifteen years' experience all branches, location immaterial, recently demobbed; excellent references. Permanent post with prospects for conscientious worker (unqualified). 946/339, C. & D. Office.

INDIAN Student, without previous experience, wishes to enter apprenticeship, in Metropolitan area. Replies to: Johnson & Clapham (Export) Ltd., 54 St. Mary Axe, E.C.3.

KEEN and efficient man desires post; 15 years' experience Pill Machinery, Dispensing, Mass Making and Staff Control. 945/297 C. & D. Office.

LADY Representative, four years' experience representing leading London wholesale food firm in West Country, desires similar post perfumery, toilet, sundries, sanitary towel, or food firm etc. in London, South or West Country. Car driver; excellent references. Silence, 55 Alexandra Rd., Yeovil.

LONDON Representative desires change; greater scope and opportunity with well-established firm. 947/363, C. & D. Office.

MEDICAL Practitioner, Australian, on the English Register, 14 years' experience general practice, leaving for South Africa, seeks post with manufacturing chemists of high standing. Previous experience in the employment of manufacturing chemists of world-wide reputation. Reply 947/360, C. & D. Office.

PHARMACIST (35), 14 years' retail. London, seeks appointment sales or manufacturing; organiser and capable of staff control. 947/383, C. & D. Office.

REPRESENTATIVE, 14 years' experience; strong connexion South Wales, wishes represent firm of repute. 948/394, C. & D. Office.

REPRESENTATIVE, with excellent connexion chemists and domestic stores South-east to East London; good sales record; car owner; E.H., Westcliff Towers, Ditton Court Rd., Westcliff-on-Sea.

REPRESENTATIVE with excellent up-to-date chemists connexion London and Middlesex open to represent good Repeat lines on salary and/or commission basis. Stewart, Fourteen, Portsdown, Edgware.

REPRESENTATIVE, 21 years' experience and excellent London connection with chemists, etc., desires to represent firm of good repute; first-class references. 946/346, C. & D. Office.

REPRESENTATIVE calling chemists, grocers, hairdressers, stores, co-ops, etc., E. and N. Yorks, Durham, and Lincs, open to represent good lines, including Cosmetics, on salary, commission, and expense basis; interview preferred. Write, 942/219 C. & D. Office.

SALES Manager (M.S.M.A.). Practical experience of sales organisation and general business management desires change; would consider investment or partnership. Enquiries invited. 945/322 C. & D. Office.

SALESMAN, M.P.S., 39, Tall, smart, energetic, fine sales record, requires post with reputable house where possibility to earn £750 per annum and upward; drive any make of car; clean licence. Territory desired, London, Home Counties or S.E. Coast. O'Connor, 29 High St., Hampstead, N.W.3. Ham 0599.

WELL-KNOWN Representative (age 32 years) covering Lancs., with strong personal chemist connexions, seeks position with well-known house. 947/390, C. & D. Office.

MISCELLANEOUS SALES

12/6 for 60 words or less, 1/- each additional 10 words or less.

APPROXIMATELY 30 cwt. talcum powder, unscented. What offer? 946/352, C. & D. Office.

CARMINE, pure cochineal, in small lumps, surplus stock, best offer over 90s. per lb.; also 5-lb. Menthol Cryst. Chinese, 70s. per lb. Rouse Bros. (London) Ltd., 61 Charlotte St., W.1. Museum 0061.

COMPLET Chemist's shop fittings for sale. Phone Cunningham 4223 Between 8.30 and 10 a.m., or 6.30 and 7.30 p.m.

FOR SALE.—1 Ton Sturtevant Dry Mixer complete with conveyor. Apply Box No. 282, New Era Advertising Service, Ltd., Ludgate House, 107 Fleet Street, E.C.4.

FOR Sale, 12 cwt. of Zinc Oxide. Offers to C. L. Walker, of Thornton Walker & Co., 10/11 Park Place, St. James's Street, S.W.1. Regent 3651/3.

SURPLUS Stock—500 gross of rubber wads, suitable for nail varnish bottles. 3s. 6d. per gross. 947/371, C. & D. Office.

200 gross 1-dram vials with corks, to clear. Edwards, 3 St. Helens Rd., Doncaster.

25,000 pint Bath Crystal Cartons. Barrington Hannan & Son, 37 Lewisham Road, London, S.E.13.

APPOINTMENTS

DISPENSER wanted for Mission Hos Jerusalem. Must be fully qualified. 30-40. Apply Church Missions to Jews, Lincoln's Inn Fields, London, W.C.2.

ESSEX COUNTY COUNCIL

ASSISTANT DISPENSER (Non-Resid) required at Oldchurch County Hosp Romford. Salary £150 a year, rising, sub to satisfactory service, by annual increment of £10 to a maximum of £175 a year, plus a war bonus as the Council may from time to time decide. The rate of the commencing salary will be fixed having regard to the qualification and experience of the person appointed. Applicants with Apothecary Hall qualification will be suitable. Appointment will be sub to the Council's Sick Pay Rules and Regulations and Standing Orders, copies of, or extract from, which will be forwarded on application. Applications should be sent, as soon as practicable, to Mr. G. E. Pegram, Administrative Officer, Laurie Square, Romford.

MIDDLESEX COUNTY COUNCIL

Appointment of COUNTY ANALYST. Applications are invited for this part-time appointment as from 1st July, 1946. Salary £1,100, plus certain additional fees. Further particulars obtainable by sending stamped address envelope to the undersigned. Last day applications 16th March 1946. C. W. Radcliff, Clerk of the County Council, Guildhall, Westminster, S.W.1.

WILLESDEN GENERAL HOSPITAL

HARLESDEN ROAD, LONDON, N.W.10.

APPLICATIONS are invited for the post Assistant Pharmacist (lady). Salary £2 per annum, with lunch and tea, superannuation and uniform. Apply, with full particulars and references, to General Secretary.

ROYAL SUSSEX COUNTY HOSPITAL

ASSISTANT Pharmacist required for February next. Salary in accordance with British Hospitals Association Scale (adjusted to any higher scale negotiated).

Applications, stating age, qualifications, experience, together with copies of recent testimonials, should be sent to the Secretariat Superintendent as soon as possible.

BUSINESSES WANTED

7/6 for 40 words or less, 2d. for every additional word.

DRUG STORE required with small living accommodation. Preference South-east area anywhere South-east England considered. London. Immediate cash up to £2,000. Retreated strictly confidentially. 948/395, C. & D. Office.

ESTABLISHED middle-class Pharmacy, London suburban area, radius 25 miles. No west preferred. Turnover £4,000 p.a. Live accommodation. 946/351, C. & D. Office.

INFANTRY Capt. Demobbed (M.P.S.). Known in Public and Business Pharmacy; urgently requires pharmacy or partnership with view to succession in agricultural town or village. An older pharmacist make way for soldier proprietor? 947/381, C. & D. Office.

PHARMACY, or Drug Store wanted. No country, coastal area preferred and live accommodation not essential. Not a large place, pleasant if possible. Details in confidence. 947/381, C. & D. Office.

TRADE MARKS

Trade Mark ESSOGEN registered under 7726-27 in respect of vitamin concentrates in medicine and pharmacy, and substances food or as ingredients in food; and the Mark ADVITA, registered under Nos. 91 in respect of chemical substances prepared in medicine and pharmacy, and substances food or as ingredients in food but not including, bread, cereal food and similar goods, signed on the 1st January, 1946 by Lever, Port Sunlight, Limited, of Port Sunlight, to Advita Limited, of 2 Kingscote Street, Street, London, E.C.4, without the goodwill business in which they were then in use.

PATENTS

Proprietors of the Patent No. 514979 for "Deodorant Powder" are desirous of entering arrangements by way of licence and otherwise on the terms for the purpose of exploiting the and ensuring its full development and working in this country. All communication should be addressed in the first instance to the Lake & Co., 28 Southampton Buildings, Fenchurch Lane, London, W.C.2.

BUSINESSES FOR DISPOSAL

7 or 40 words or less, 2d. for every additional word.

LIST and Druggist—Post Office attached, including valuable property, vacant possession see. Merseyside built-up area. Particulars 513, Lee & Nightingale, Liverpool.

LY Chemist, mod. corner shop and property Manchester. Nicely fitted, big stock, disp. etc.; estab. 20 years. N.H.I. Disp. app. p.a., good sale own preparations. £3,000; price can be arranged. Brentwood Estates, 29, Cannon Street, Manchester 2. BLA 0281.

SALE, business, main road, near Manchester, present run partly as Drug-store; excellent opportunity for Chemist, smart, large shop, with room for optical work, very good living accommodation. 947/359, C. & D. Office.

AGENCIES

7 or 36 words or less, 2d. for every additional word.

VE Agent, good connection wholesale chemists and Haberdashery Merchants on the East Coast, would like one or two extra lines. 946/354, C. & D. Office.

ATIONAL Lines wanted. A firm of agents covering many parts of Great Britain would be interested in offers of additional lines for sale to agents, Co-ops, Hairdressers, Grocers, Toy Dealers, retail and wholesale. Full-time representation required by travellers covered by fidelity bonds. 946/354, C. & D. Office.

ENTS required to sell Seeds on Commission basis for nationally-advertised and old-established house; only firms of high repute will be considered. Write in first instance giving fullest details, area covered, etc. 941/173, C. & D. Office.

CS, Ches., Yorks. One or two additional lines required in this area. 944/280, C. & D.

TERN IRELAND'S leading agent for Toilets and Sundries with large connexions at chemists, seeks quantities of goods from manufacturers. Also interested in other lines suitable for chemists. Send prices and samples to Marshall & 4-48 Donegal Street, Belfast.

ESTABLISHED London importer is open to accept one or two agencies in England on commission basis. Must be competitive lines for chemists, stores, hairdressers or fancy dealers. JA/BA, 946/341, C. & D. Office.

BUSINESS OPPORTUNITIES

7/6 for 40 words or less, 2d. for every additional word.

COMMERCIAL Artist, specialising in manufacturing and wholesale chemists' lines, requires commissions for the design of showcards, displays, cartons and all kinds of packaging and show material.

EXECUTIVE who co-operated well-known brand "Aspirin 3's" introduction and sales drives in India and Burma, now in London, seeks interview with manufacturers and wholesalers of Aspirin tablets who may be interested to market in India etc. a mass retail packing of 3's. Willing to join on salary or commission and expenses, or purchase special packing on own account. 946/335, C. & D. Office.

DISTRIBUTION to Retailers. Manufacturer of well-known branded Chemists' sundries, seeks distribution facilities in several centres. Please give comprehensive information concerning: organisation, goods manufactured, agencies held, territory covered, services offered, commission required. Replies will be treated in strict confidence. 946/344, C. & D. Office.

LET us pack for you all kinds of Liquids, Powders, Tablets; give us bulk, we give you the finished article; also may be able to help packing difficulties: bottles, jars, etc. 943/233, C. & D. Office.

OLD-ESTABLISHED remedy with registered Trade Mark for sale. Owners anxious to retire. Has expanding Home and Export market. Excellent prospects for expansion. Bankers' credentials required. 946/338, C. & D. Office.

OLD-ESTABLISHED Specialists in the manufacture of Proprietary Products offer a comprehensive service covering manufacturing, tableting, packing and despatches of proprietary and other products. Please give brief details of requirements and products, in confidence. Box 700, Hannaford & Goodman Ltd., 69 Fleet Street, London, E.C.4.

SMALL Manufacturer of cosmetics and toilets with portion unused quota, welcomes suggestions from someone able to develop short supply lines. Qualified help available. New ideas invited. 946/358, C. & D. Office.

SPRAY Drying capacity available. Enquiries to Box No. 275, New Era Advertising Service Ltd., Ludgate House, 107 Fleet Street, E.C.4.

TO Small Manufacturers. Full distribution of your products, on a commission basis, is offered to small manufacturers who have no full selling organisation; all retail trades covered. 944/281, C. & D. Office.

WHOLESALE Factors required for each County in the U.K. Sound connections with General Stores buying Rat and Mouse Exterminator and DDT Insect Powder. Substantial commission. Apply 946/343, C. & D. Office.

PREMISES WANTED

PREMISES required suitable for small factory, preferably N.W. London. Harman Dietetic Laboratories, Ltd., 109 Cricklewood Broadway, London, N.W.2.

PARTNERSHIPS

PHARMACIST wanted as partner with capital Good shop in London. No opposition. Unique opportunity. Apply 946/332, C. & D. Office.

PREMISES FOR SALE

A BARGAIN. Hastings Freehold Detached shop and house with double Garage and nice garden. Large shop and house has 3 reception, 4 bedrooms, kitchen, bathroom, etc. Suitable Chemist, Ironmonger and other trades. £3,500. Silvester, 3 East Ascent, St. Leonards-on-Sea.

EXPORT TRADE

AGENCY or Distributorship in India of products saleable through Chemists and Druggists, desired by United Medical Stores, Ltd., 16 Bonfield Lane, Calcutta. Telegraphic address, "Unimedisto." Bankers, Mercantile Bank of India, Ltd. References from May & Baker, Ltd., Dagenham, London; Burgoyne Burbridges, Co., Ltd., Eastham, London; Dakin Bros., Ltd., 44-50 Southwark St., London, S.E.1.

ARGENTINE—Pharmaceutical and Industrial chemicals, drugs, essential oils, raw materials—Well-established firm wishes to represent on commission basis British Manufacturers or producers; bank and trade references. Offers to S. Cusmano Humalta 6918—Buenos Aires.

EXPORT.—Managing Director of leading Importers Middle and Near East now on purchasing mission in this country is prepared to place substantial contracts against cash payment in London preferably if Sole Agency arrangements could be made. Interested Manufacturers are invited to write in confidence, giving full particulars as to range of articles etc. to 947/376, C. & D. Office.

EXPORT.—Middle/Near East. Old-established U.K. Exporters desire contact makers of all kinds pharmaceutical, medicinal, surgical, rubber and toilet products especially better types, and Vaccines, Sera, Injections, Drugs of newest discoveries and general types. Our main *Egyptian clients* hold M. of Health permit to import and deal these lines. Sole distribution rights subject to results to be arranged for certain markets re above and/or other territories. Replies to V. S. Besso & Co. Ltd., 36 Queen St., Manchester 2.

HENRY RUSSELL & CO., Road 13, Villa 75, Maadi, Cairo, Egypt, is interested in first-class pharmaceutical and cosmeceutical products, also essential oil, sole agency or distributorship will be considered; write with full details please.

HYGIENICAL and Surgical Rubberware Bandages, elastic Stockings, nursery articles. Dutch importer wants offers in these articles. Write to Terlouw & Co., Kleiweg 759, Rotterdam, N.

INDIA. Leading Manufacturer's Representative (established 1926), having had extensive pre-war Continental connexions and sound All-India distribution, is desirous of contacting British Manufacturers of Proprietary, Toiletries, Beauty Products and Allied general articles. References, Barclays Bank, Ltd., 168 Fenchurch Street, London, E.C.3. Correspondence invited. Write R. B. Shewaram Dewanmal & Co., 1 Britto Road, Karachi 5, India.

LONG-ESTABLISHED Firm wishes to import and represent British manufacturers of Pharmaceutical Products, Druggist Sundries, Chemicals, Toilet Preparations, Cosmetics, Tooth Paste, Tonic Food. Send samples and quotations. Sim Ah Kow & Co., 25 Bonham Building, Singapore.

OVERSEA buyer invites quotations Aspirin 5 grs. and chocolate Laxative Tablets, bulk and packed 3's and 2's. 946/336, C. & D. Office.

PALESTINE. Pharmacist, M.P.S., now in Gt. Britain, returning shortly to Palestine, wishes representation or agency. Pharmaceutical, Chemical, Sunbites, Cosmetics, Plastics and other lines considered. 946/333, C. & D. Office.

TIKKHOS Flasks. Leading Danish firm for kitchen utensils wants thermos flasks. What can you provide us with? Send full particulars to: Fritz Carstens, 37 Vesterbrogade, Copenhagen V, Denmark. Telegrams: "Fritcar."

WELL-KNOWN import and agency firm in the toilet goods and pharmaceutical trade desires contact with exporters. We are interested in all kinds of chemicals, drugs, cosmetics and plastic products. First-class bank references available. Please reply to Messrs. C. G. Livijn, Stora Nygatan, 5 Stockholm, Sweden.

WELL-KNOWN and introduced Swedish exporters desire to obtain Agency, or import goods of the following lines: Perf Cosmetics, Hairdresser's Sundries, Plastic bank references: Skanska Banken Malmö fumerie Gust Wulff A.B. (Leverantör De S. Roi De Suede), Malmö, Sweden, Postbox 2

ZILL & CO. Princess Street, Bombay 2 (India) with all-India organisation—desires connection with manufacturers and exporters of requisites like syringes, needles, blood pump apparatus; rubber goods like hot water bags; enamelware like bed pans, funnels; medical bacteriological requisites like micro haemocytometer, haemoglobinometer, slides cover slips; chemist sundries like stoppered reagent bottles, mortar and pestles, pill tiles, in glasses, sutures and suture needles, laboratory and graduated glassware, porcelainware, etc.

WANTED

7/6 for 36 words or less, 2d. for every additional word

CHEMISTS' Fittings and Utensils wanted branch in Yorkshire; single items or complete sets; full particulars and prices to Selles Dispensary Chemists Ltd., Hallgate, Cottingham, E. Yorks.

OL Anisi, Ol. Anethi, Ol. Carni wanted. Also large quantities. Price and quantity available to Elliott, 14 Red Scar Lane, Scarborough.

SULPHONATED Fatty Alcohol Powder required in ton lots immediately. 946/342, C. & D. Office.

SURPLUS Stocks: White Beeswax, Spermaceti, Cinnamic Aldehyde, Vanillin, Ethyl Vanillin, Coumarin, Lemon Grass Turpene; also any Essential Oils: Citronella, Geranium, Petit Grain, A. Peppermint, Spearmint, Sandal Wood, Lavender, Bergamot, Patchouli, Lemon Grass, Palma Christi, etc. CDB/433, C. & D. Office.

TARTARIC Acid. Supplies required to meet average weekly need of 350 lbs. for manufacturing purposes; regular or single delivery welcomed; details and price to 946/350, C. & D. Office.

WANTED, fixtures and fittings. Give price and full description. 946/345, C. & D. Office.

WANTED. Complete Still, 30-50 gallons capacity in stainless steel, copper or glass lined; under-driven Electric Hydro Extractor, 48 in. base. Reed Bros. (Engineering), Ltd., Bevis Marks Road, London, E.C.3. Avenue 1901/5.

WANTED. Hair Grips, Curlers, Hair Slide quantity. 947/386, C. & D. Office.

WANTED 4-oz. Medical Flats or Bow Pans. Bottles, amber or white flint, 100 gross 1,000 gross; will collect and pay prompt cash. 942/212, C. & D. Office.

WHITE Petroleum Jelly B.P. required, delivered to London; please state quantity available. 941/182, C. & D. Office.

4-OZ. Bottles. Large supplies urgently wanted for actual users for export trade; good price offered if complete with bakelite caps. Also 6-oz. Bottles and collapsible corrugated outers to half 12 of each size. 637/944, C. & D. Office.

500 LBS. small Throat pastilles required every ten days in bulk. Also licorice in methol pellets. Lowest price for cash. Urgent. 944/263, C. & D. London Office.

PREMISES TO LET

GOOD Shop in N.W.6 district, 3 minutes from Underground Station, available on 3 years Lease at a very moderate rent. Tenant to take over all fixtures and fittings which are suitable for Chemist, etc., at a price of £300. Write to 947/376, C. & D. Office.



An Explanation . . . and Apology

War-time shortages of materials have recently caused delays in our deliveries and have forced upon us the necessity of confining the supply of the large size exclusively to requirements for Physicians' private prescriptions, Hospital and N.H.I. dispensing purposes.

FELSOL is not discontinued, the 2/10 size remains available, but this too must, for the time being, at least, be regarded as in short supply.

Gratefully acknowledging the co-operation of our many Pharmaceutical Friends, we apologise for any inconvenience these temporarily enforced conditions, beyond our control, may impose and give the assurance that every effort is made to ensure the fairest possible distribution by executing all orders in strict rotation.

BRITISH FELSOL COMPANY LTD

WIGTON HOUSE, 206-212 ST JOHN STREET, CLERKENWELL, LONDON, E.C.1.

Telephone. CLERKENWELL, 5862 Cables. 'Felsol' Smith, London.